

BOSTON PUBLIC LIBRARY



3 9999 06542 390 5

ANNUAL REPORT
OF
The Boston City Hospital
BOSTON, MASS.



1922 1923

me

No. 6359.17

59th

1922-23



GIVEN BY

Boston City Hospital

FIFTY-NINTH ANNUAL REPORT
OF
THE TRUSTEES
OF
THE BOSTON CITY HOSPITAL

INCLUDING THE
REPORT OF THE SUPERINTENDENT

UPON THE
HOSPITAL PROPER
THE SOUTH DEPARTMENT FOR INFECTIOUS DISEASES
THE HAYMARKET SQUARE RELIEF STATION
THE EAST BOSTON RELIEF STATION
THE CONVALESCENT HOME AT DORCHESTER
THE WEST DEPARTMENT
AND ALSO THE
RULES FOR ADMISSION, DISCHARGE AND GOVERNMENT
OF PATIENTS, ETC.
FOR THE FIFTY-NINTH YEAR

FEBRUARY 1, 1922, TO JANUARY 31, 1923, INCLUSIVE



CITY OF BOSTON
PRINTING DEPARTMENT
1923

6359.17

Central City Hospital
Feb. 21. 1924

RECEIVED

FEB 20

1924

TABLE OF CONTENTS.

	PAGE
Accident cases	66, 68
Ambulances:	
Record of Work	68, 72, 78, 108, 109
Applicants for Admission, Hospital Proper	67, 71, 107
" " " South Department	77
Aural and Laryngological Service:	
Report of	29
Statistics as to patients	64, 67, 68, 70
Bequests and Trust Funds	25, 63, 118
Blood Service:	
Report of	41
Statistics as to Patients	64, 68
Cardiac Clinic:	
Report of	41
Statistics as to Patients	64, 68
Census of Days' Board of Persons	73, 95
City Hospital Improvements	24
Clinical Laboratory Department:	
Report of	33
Statistics as to Patients	64, 68
Clinical Records:	
Index Cards	110
Convalescent Home:	
Staff	14, 19
Expenditures	79, 80
Capacity	69
Statistics as to Patients	46, 110
Rules for	124
Dental Service:	
Report of	38
Statistics as to Patients	64, 68
Dermatological Service:	
Report of	30
Statistics as to Patients	64, 67, 68, 70
East Boston Relief Station:	
Executive Staff	19, 116
Statistics as to Patients	46, 109

	PAGE
East Boston Relief Station:	
Paying Patients	23, 24
Ambulance Service	109
Capacity	69
Expenditures	79, 80
Revenue	97
Rules for	121
Executive Department:	
Hospital Officers and Administrative Assistants	19, 20
Changes in	114
Expenditures and Receipts, 21, 71, 79, 80, 84, 86, 95, 97, 98	100, 105
Finances:	
Appropriations	24, 25, 71
Expenditures, according to uniform system	80
Disbursements, according to division	21, 79, 86
Per Capita Cost per Patient	22, 79, 80, 96, 106
Expenditures in accord with segregated budget 84, 98, 105	
Revenue from all sources	94, 97
Expenditures last four years	95
Unpaid liabilities incurred to January 31, 1922, 98, 100, 105	
Fire Protection	25
Gastro-Intestinal Service:	
Report of	39
Statistics as to Patients	64, 68
Gifts and Bequests	25, 63, 118
Gynæcological and Obstetrical Section:	
Report of	26
Statistics as to Patients	64, 68
Haymarket Square Relief Station:	
Executive Staff	19
House Officers	18
Paying Patients	23, 24
Statistics as to Patients	46, 108
Ambulance Service	108
Capacity	69
Expenditures	79, 80
Revenue	97
Rules for	121
Heating Plant:	
Oil burning equipment	25

Hospital:

Capacity of 69

Need of new buildings 116

Hospital Officers and Administrative Assistants . . 19, 20

House Officers:

Those who have completed service during year . . 15

Those on duty at beginning of year 16

Ether Prize 61

House Rules 119

Immunology, Department of:

Report of 37

Statistics as to Patients 64, 68

Insurance Cases 23, 24

Laboratories:

Expenditures 79, 80, 86, 100

Maintenance Statistics 21, 105, 106

Medical Library 110

Medical and Administrative Assistants 20

Medical and Surgical Staff:

List of 9

Obituary 47

Changes during the year 49

Publications of Staff 51

Articles read and addresses made by Staff . . . 57

Medical Department:

Statistics as to Patients 64, 67, 68, 70

Mortality, Rate of 66, 75, 106

Neurological Service:

Report of 29

Statistics as to Patients 64, 67, 68, 70

Nutrition Clinic 41

Obituary 47

Ophthalmic Service:

Report of 28

Statistics as to Patients 64, 67 68, 70

Out-Patient Department:

Externes 16, 17

Paying Patients 23, 24

Patients Treated 46, 66, 68

Number of Visits 46, 64

Expenditures 79, 80, 86, 100

Out-Patient Department:

Revenue from Out-Patient Insurance Cases	23, 24, 97
New building	24, 116

Pathological Department:

Staff	9, 13, 19, 20, 114
Report of	31

Patients:

Applicants for admission	67, 71, 107
Number of	64, 66, 67, 70, 106, 107
Days' Board given Patients	73
Daily Average	73, 106
Maximum and minimum number of patients	73, 106
Expenditures	21, 79, 80, 96
Statistics as to Services	64, 70
Paying	23, 24
General Statistics	67
Nativity of	74
Condition on Discharge	74
Comparative Statistics for the Last Ten Years	66
Rate of mortality	66, 106

Pediatric Service:

Statistics as to Patients	64, 67, 68, 70
-------------------------------------	----------------

Per Capita Costs:

Hospital Proper:

Per Ward Patient	22, 79, 80, 96, 106
Per Out-Patient, per Visit	22, 79, 80, 96, 106

South Department:

Per Patient, after deducting cost of new construction	22, 79, 96, 106
---	-----------------

Hospital Proper and South Department, together:

Per Ward Patient	22, 80, 96, 106
----------------------------	-----------------

Haymarket Square Relief Station:

Per Ward Patient	22, 79, 80, 96
Per Out-Patient, per Visit	22, 79, 80, 96, 106

East Boston Relief Station:

Per Ward Patient	22, 79, 80, 96
Per Out-Patient, per Visit	22, 79, 80, 96, 106

Convalescent Home:

Per Ward Patient	22, 79, 80, 96, 106
----------------------------	---------------------

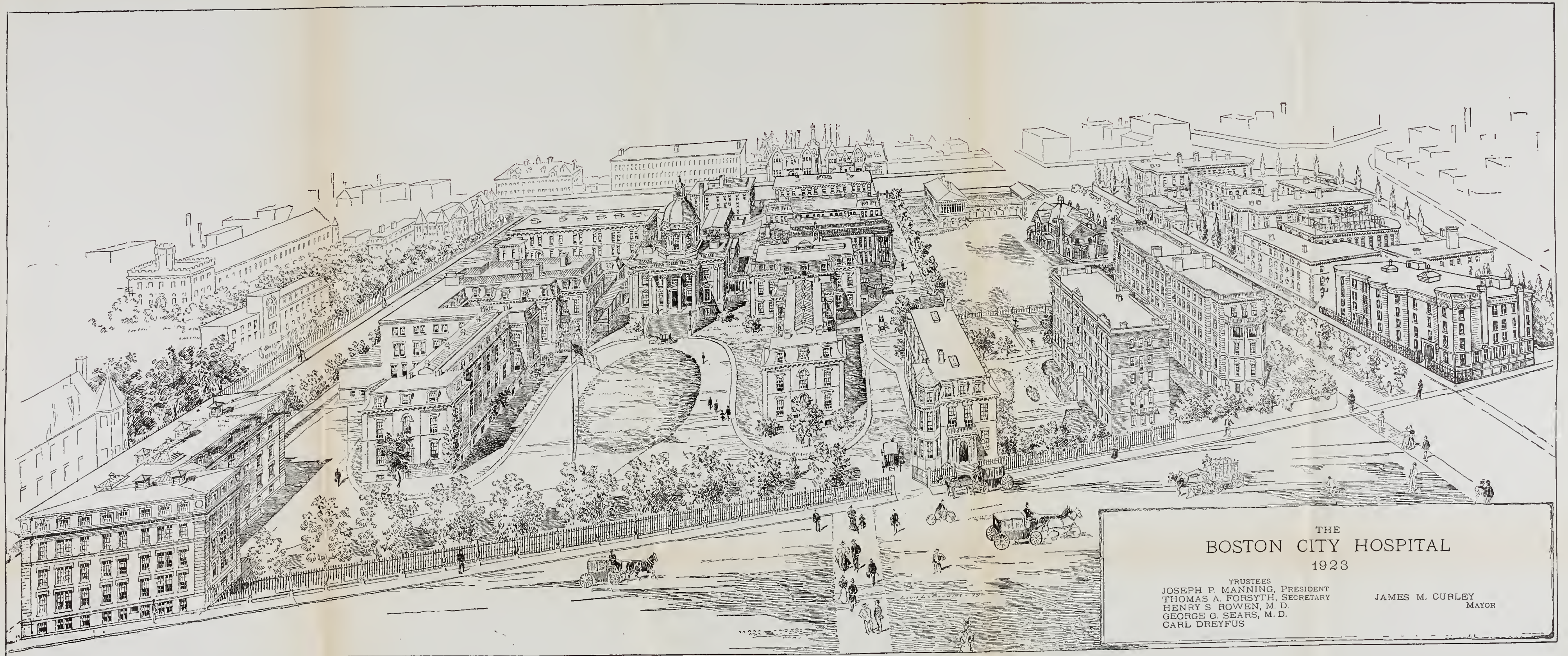
All Departments:

Per Person for uncooked food supplies	22, 96, 106
---	-------------

	PAGE
Physical Therapeutics, Department of:	
Report of	30
Statistics as to Patients	64, 68
Expenditures	79, 80, 86, 100
Pneumonia, Special Service:	
Statistics as to patients	41, 64, 67, 68, 70
Receipts and Expenditures	21, 71, 79, 80, 84, 86 95, 97, 98, 100, 105
Revenue:	
Table of	97
Rules:	
Changes of	62
Rules relating to South Department	120
Rules relating to Relief Stations	121
" " " Convalescent Home	124
Social Work, Department of:	
Report of	42
Expenditures	44, 79, 80, 86, 100
South Department:	
Staff	19, 20, 116
House Officers	18
Paying Patients	23, 24
Statistics as to Patients	46, 66, 75
Applicants for Admission	77
Applicants not admitted during year	77
Capacity	69
Mortality, Rate of.	75
Patients, Nativity of	76
Patients, Condition on Discharge	76
Record of Ambulance Work	78
Expenditures	79
Revenue	97
Rules for	120
Special Account, 1921-22	98, 100, 105
Special Service — Pneumonia:	
Statistics as to Patients	41, 64, 67, 68, 70
Sprinkler System	25
Statistics, Hospital Proper	67
Superintendent:	
Report of	64

8 ANNUAL REPORT OF THE BOSTON CITY HOSPITAL.

	PAGE
Surgical Department:	
Report of	26
Statistics as to Patients	64, 67, 68, 70
Thorndike Memorial Laboratory:	
Staff	14, 19, 20, 115
Report of	35
Fund	25
Construction	25, 116
Training School for Nurses:	
Statistics	110
Curriculum Amplified	114
Prizes	114
Increased accommodations for nurses needed	116
Trust Funds and Bequests	25, 63, 118
Trustees:	
List of	9
Organization	21
Report of	21
Appointment	21
West Department:	
Leased to War Department	46
Revenue	97
X-Ray and Photographic Department:	
Staff	14, 19, 115
Work of	36
Visits of Out-Patients	64
Out-Patients Treated	66, 68
Expenditures	79, 80, 86, 100
Income from X-Ray Cases	23, 24



THE
BOSTON CITY HOSPITAL
1923

TRUSTEES
JOSEPH P. MANNING, PRESIDENT
THOMAS A. FORSYTH, SECRETARY
HENRY S. ROWEN, M. D.
GEORGE G. SEARS, M. D.
CARL DREYFUS

JAMES M. CURLEY
MAYOR



FIFTY-NINTH ANNUAL REPORT

OF THE

TRUSTEES

OF

THE BOSTON CITY HOSPITAL

WITH

REPORT OF THE SUPERINTENDENT

THE HOUSE RULES, WITH RULES FOR ADMISSION, DIS-
CHARGE AND GOVERNMENT OF PATIENTS, ETC.

FOR THE

FIFTY-NINTH YEAR, FEBRUARY 1, 1922,
TO JANUARY 31, 1923, INCLUSIVE.

TRUSTEES.

JOSEPH P. MANNING, <i>President</i>	.	.	Term expires in 1926.
THOMAS A. FORSYTH, <i>Secretary</i>	.	.	Term expires in 1924.
HENRY S. ROWEN, M. D.	.	.	Term expires in 1927.
GEORGE G. SEARS, M. D.	.	.	Term expires in 1923.
CARL DREYFUS	.	.	Term expires in 1925.

MEDICAL AND SURGICAL STAFF.

Consulting Physicians and Surgeons.

Edward H. Bradford, M. D.	George H. Monks, M. D.
V. Y. Bowditch, M. D.	Morton Prince, M. D.
Abner Post, M. D.	Elliott P. Joslin, M. D.
H. W. Cushing, M. D.	Henry Jackson, M. D.
F. S. Watson, M. D.	George G. Sears, M. D.
John Bapst Blake, M. D.	

Consulting Pathologist.

William T. Councilman, M. D.

Consultant in Tropical Diseases.

Richard P. Strong, M. D.

Consultant in Ophthalmology.

Allen Greenwood, M. D.

Consulting Aural Surgeon.

Rockwell A. Coffin, M. D.

Curator of the Hospital Museum.

Townsend W. Thorndike, M. D.

Superintendent and Medical Director.

John J. Dowling, M. D.

Senior Physicians.

George B. Shattuck, M. D. | Francis H. Williams, M. D.

Visiting Physicians.

John L. Ames, M. D.	| Franklin W. White, M. D.
William H. Robey, M. D.	| Edwin A. Locke, M. D.
Ralph C. Larrabee, M. D.	| Edward N. Libby, M. D.
Francis W. Peabody, M. D.	

Visiting Pediatrician.

Oscar M. Schloss, M. D.

First Assistant Visiting Physicians.

Francis W. Palfrey, M. D.	| Cadis Phipps, M. D.
Harold W. Dana, M. D.	

Second Assistant Visiting Physicians.

Thomas J. O'Brien, M. D.	| William D. Reid, M. D.
Albert A. Hornor, M. D.	| Hiram H. Amiral, M. D.*
Martin J. English, M. D.*	| Thomas E. Buckman, M. D.*
William R. Ohler, M. D.	| George C. Shattuck, M. D.†
Edmund F. Walsh, M. D.	| Louis J. Ullian, M. D.
Burton E. Hamilton, M. D.	| Dwight O'Hara, M. D.
Harry A. Nissen, M. D.	| Henry Jackson, Jr., M. D.
Joseph M. Lynch, M. D.	| Robert B. Hunt, M. D.*
Joseph E. Hallisey, M. D.	| Augustine W. McGarry, M. D.*
John A. Foley, M. D.	| Andrew Nichols, M. D.*
Joseph Garland, M. D.*	

* Pediatric Service.

† Tropical Diseases.

Assistants to Visiting Physicians.

Louis F. Curran, M. D.*	Max Theiler, M. D.†
J. R. Jankelson, M. D.†	Cecil K. Drinker, M. D. §
Frank S. Cruickshank, M. D.||	

Senior Surgeons.

George W. Gay, M. D.	Charles M. Green, M. D.
----------------------	-------------------------

Surgeons-in-Chief.

Paul Thorndike, M. D.	Howard A. Lothrop, M. D.
Fred B. Lund, M. D.	Frederic J. Cotton, M. D.

Visiting Surgeons.

Joshua C. Hubbard, M. D.	Nathaniel R. Mason, M. D.
David D. Scannell, M. D.	Horace Binney, M. D.
Frank H. Lahey, M. D.	

First Assistant Visiting Surgeons.

Robert M. Green, M. D.	Irving J. Walker, M. D.
Halsey B. Loder, M. D.	Arthur R. Kimpton, M. D.
John T. Williams, M. D.	Robert C. Cochrane, M. D.
Frederick L. Good, M. D.	Otto J. Herman, M. D.
Somers Fraser, M. D.	

Out-Patient Surgeons.

Francis F. Henderson, M. D.	James J. Hepburn, M. D.
Herbert H. Howard, M. D.	Donald Munro, M. D.
Howard M. Clute, M. D.	

Assistants to Out-Patient Surgeons.

Joseph H. Shortell, M. D.	Harold V. Hyde, M. D.
Augustus Riley, M. D.	William R. Morrison, M. D.
Joseph P. Cohen, M. D.	Edward Harding, M. D.
Thomas K. Richards, M. D.	

* Appointed for six months beginning September 8, 1922.

† Appointed for six months beginning November 7, 1922.

‡ Appointed for six months beginning December 1, 1922.

§ Appointed for six months beginning November 1, 1922.

|| Appointed for six months beginning January 1, 1923.

Temporary Assistants to Out-Patient Surgeons.

Eugene E. O'Neil, M. D.*	|	Sidney C. Wiggin, M. D.†
Llewelyn H. Rockwell, M. D.†	|	Gordon D. Atkinson, M. D.§
		Edward B. Ormsby, M. D.||

Anæsthetists.

John E. Butler, M. D.	|	Nathaniel N. Morse, M. D.
Frank L. Richardson, M. D.	|	Lincoln F. Sise, M. D.

Oral Surgeon-in-Chief.

Stephen P. Mallett, D. M. D.

Oral Surgeons.

William H. Canavan, D. M. D. | Thomas Hennessey, D. M. D.

Dentist.

Douglass M. Baker, D. M. D.

Visiting Ophthalmic Surgeon.

Henry B. Stevens, M. D.

Ophthalmic Surgeons.

Jeremiah J. Corbett, M. D.	|	L. Colby Rood, M. D.
		Leon W. Jessaman, M. D.

Assistants to the Ophthalmic Surgeons.

Samuel H. Wilkins, M. D.	|	Joseph J. Skirball, M. D.
		Jeffrey J. Walsh, M. D.

Senior Surgeon for Diseases of Ear and Throat.

George A. Leland, M. D.

Surgeon for Diseases of Ear and Throat.

Louis M. Freedman, M. D.

* Appointed for six months beginning September 20, 1922.

† Appointed for six months beginning September 29, 1922.

‡ Appointed for six months beginning November 7, 1922.

§ Appointed for six months beginning December 8, 1922.

|| Appointed for six months beginning January 1, 1923.

Assistant Surgeons for Diseases of Ear and Throat.

William T. Haley, M. D.	|	William F. Regan, M. D.
Edward J. Monahan, M. D.	|	Edmund J. Butler, M. D.
Philip E. A. Sheridan, M. D.	|	Philip R. Dwyer, M. D.
Chester R. Mills, M. D.		

Assistant to the Surgeons for Diseases of Ear and Throat.

* Charles W. DeWolf, M. D.

Visiting Surgeon for Oral and Plastic Surgery.

Varaztad H. Kazanjian, M. D.

Visiting Physicians for Diseases of the Nervous System.

John J. Thomas, M. D.	|	Arthur W. Fairbanks, M. D.
-----------------------	--	----------------------------

First Assistant Visiting Physicians for Diseases of the Nervous System.

Abraham Myerson, M. D.	|	LeRoy A. Luce, M. D.
------------------------	--	----------------------

Second Assistant Visiting Physicians for Diseases of the Nervous System.

Miner H. A. Evans, M. D.	|	Percy L. Dodge, M. D.
--------------------------	--	-----------------------

Physicians for Physical Therapeutics.

Frank B. Granger, M. D.	|	Robert E. Bonney, M. D.
-------------------------	--	-------------------------

Assistant Physician for Physical Therapeutics.

Joseph Resnik, M. D.

Physician for Diseases of the Skin.

Townsend W. Thorndike, M. D.

Assistants to the Physician for Diseases of the Skin.

William P. Boardman, M. D.	|	M. C. vonGroll, M. D.
Walter T. Garfield, M. D.		

Pathologist.

F. B. Mallory, M. D.

Director of Thorndike Laboratory.

Francis W. Peabody, M. D.

Physician for Infectious Diseases.

Edwin H. Place, M. D.

Physician for X-Ray Service.

Paul F. Butler, M. D.

Assistant Physician for X-Ray Service.

Forrest B. Ames, M. D.

Visiting Physician for Immunology.

George P. Sanborn, M. D.

Physicians to the Convalescent Home.

John P. Treanor, M. D. | Henry F. R. Watts, M. D.

Bradford Kent, M. D.

HOUSE OFFICERS.

The following named House Officers have completed service during the year:

Philip W. Blake, M. D., Medical Service . . .	20 months
William H. McKnight, M. D., Medical Service . . .	20 months
Gerald N. Hoeffel, M. D., Medical Service . . .	18 months
George L. Fuller, M. D., Medical Service . . .	20 months
Lee E. Sutton, Jr., M. D., Medical Service . . .	18 months
Daniel J. Hogan, M. D., Medical Service . . .	20 months
Allen L. McMurrey, M. D., Medical Service . . .	14 months
Harry Soforenko, M. D., Medical Service . . .	17 months
Hyman A. Novack, M. D., Medical Service . . .	20 months
Benjamin S. Sharp, M. D., Medical Service . . .	20 months
David Zelig, M. D., Medical Service . . .	20 months
Charles H. Griffin, M. D., Medical Service . . .	20 months
Harry L. Doherty, M. D., Surgical Service . . .	20 months
Herbert Coulson, M. D., Surgical Service . . .	20 months
Sidney C. Wiggin, M. D., Surgical Service . . .	20 months
Gerald L. Doherty, M. D., Surgical Service . . .	19 months
Benedict F. Boland, M. D., Surgical Service . . .	20 months
Richard I. Smith, M. D., Surgical Service . . .	20 months
Ralph R. Wilson, M. D., Surgical Service . . .	16 months
David D. Greene, M. D., Surgical Service . . .	20 months
Mast Wolfson, M. D., Surgical Service . . .	20 months
John D. Sheehan, M. D., Surgical Service . . .	23 months
John G. Anderson, M. D., Surgical Service . . .	20 months
Robert M. Coleman, M. D., Surgical Service . . .	20 months
Robert M. Sutton, M. D., Surgical Service . . .	20 months
Richard J. Williams, M. D., Surgical Service . . .	20 months
Samuel Nadel, M. D., Surgical Service . . .	20 months
Chester R. Mills, M. D., Ophthalmic and Aural Service	18 months
Julius A. Kaplan, M. D., Neurological Service . . .	16 months
Max E. Witte, Jr., M. D., Neurological Service . . .	12 months
Josiah R. Eisaman, Jr., M. D., Pathological Service	11 months

HOUSE OFFICERS ON DUTY.

(February 1, 1923.)

MEDICAL SERVICE.

House Physicians.

Clarence F. Friedman.	Morris Prizer.
Aubrey C. Benjamin.	Maurice Lugitch.

Medical Senior Internes.

Eliot H. Luther.	Abraham H. Yudelman.
Emry G. Hyatt.	Erastus I. Guller.

Medical Externes.

John J. Hartigan.	Bernard I. Goldberg.
George Kahn.	Donald S. McKinnon.

Medical Junior Internes.

David H. Flashman.	Bernard Appel.
William D. O'Leary.	Joseph Goldman.

SURGICAL SERVICE.

House Surgeons.

William A. White, Jr.	John H. Ogilvie.
Saul Berman.	Edwin F. Schneiders.
Samuel R. Webber.	Harold H. Rosenfield.

Surgical Senior Internes.

Jesse B. Naive.	Howard A. Bouvè.
Henry S. Finkel.	John E. Hopkins.
William J. McDonald.	

Accident Floor House Officers.

Winchester W. Everett.	Edward T. Evans.
------------------------	------------------

Surgical Externes.

Michael E. McGarty.	Marion F. Eades.
Benedict B. Landry.	Maurice F. O'Connell.
Edward T. Evans.	

Surgical Junior Internes.

John A. Seth.	Clarence H. Falstad.
Newton C. Browder.	Kenneth C. Farnsworth.
Kenneth L. Maclachlan.	Palmer E. Sutton.

OPHTHALMIC AND AURAL SERVICE.

Resident Surgeon, Aural Service.

Paul G. Haire.

Senior Interne, Aural Service.

Antonio C. Ventrone.

Senior Interne, Ophthalmic Service.

Harry Schwartzman.

JUNIOR INTERNE, OPHTHALMIC AND AURAL SERVICE.

Fred Heimlich.

NEUROLOGICAL SERVICE.

House Physician.

Maurice W. O'Connell.

Senior Interne.

William W. Dorfman.

Externe.

Benjamin Pollack.

PATHOLOGICAL SERVICE.

Senior Interne.

Edward S. Mills.

Junior Interne.

Ralph C. McLeod.

PEDIATRIC SERVICE.

House Physician.

Leon G. Zerfas.

Senior Interne.

David Zelig.

Junior Interne.

William T. Wilkins, Jr.

LABORATORY.

Harold G. Wolf.

HOUSE OFFICERS AT THE SOUTH DEPARTMENT.

John J. Dunphy.

Henry Baker.

Earle H. Brennen.

Frank Fremont-Smith, Jr.

HOUSE OFFICERS AT THE HAYMARKET SQUARE RELIEF STATION.

Francis X. Shea.

Aaron Thurman.

Reuben B. Davidoff.

HOSPITAL OFFICERS.

John J. Dowling, M. D., *Superintendent and Medical Director.*
Edmund W. Wilson, M. D., *Assistant Superintendent.*
James W. Manary, M. D., *First Executive Assistant.*
Francis S. Brodric, M. D., *Second Executive Assistant.*
George H. Hooper, M. D., *Resident Surgeon.*
Samuel Nadel, M. D., *Temporary Third Executive Assistant.*
Lawrence A. Bettridge, M. D., *Night Executive Assistant.*
Benedict F. Boland, M. D., *Resident Anæsthetist.*
F. B. Mallory, M. D., *Pathologist.*
Francis W. Peabody, M. D., *Director of the Thorndike Laboratory.*
Paul F. Butler, M. D., *Physician for X-Ray Service.*
John Ferrin, *Chief Apothecary.*
Miss Emma M. Nichols, *Counsellor to the Training School.*
Miss Ellen C. Daly, *Superintendent of Nurses and Matron.*
Miss Gertrude L. Farmer, *Director of Social Work.*
Joanna E. Sweeney, *Registrar.*

SOUTH DEPARTMENT.

John J. Dowling, M. D., *Medical Director.*
Edwin H. Place, M. D., *Physician-in-Chief.*
Miss Julia E. F. Gertz, *Assistant Superintendent of Nurses and Matron.*

HAYMARKET SQUARE RELIEF STATION.

John G. Breslin, M. D., *Resident Surgeon.*
Bernard F. Devine, M. D., *Assistant Resident Surgeon.*
Miss Agatha P. McKenna, *Matron.*

EAST BOSTON RELIEF STATION.

George E. Allen, M. D., *Resident Surgeon.*
Carl A. Peterson, M. D., *Assistant Resident Surgeon.*

CONVALESCENT HOME.

Miss Elizabeth C. Fairbank, *Matron.*

MEDICAL AND ADMINISTRATIVE ASSISTANTS.

Thomas E. Buckman, M. D., *Hæmatologist.*

Majorie Fulstow, M. D., *Assistant Pathologist and Research Assistant in Pathology.*

Joseph T. Eagan, M. D., *First Assistant in Pathology.*

Cheng Hsiang Hu, M. D., *Second Assistant in Pathology.*

William R. Ohler, M. D., *Assistant in Clinical Pathology.*

Henry Jackson, Jr., M. D., *Assistant in the Thorndike Laboratory.*

Goronwy O. Broun, M. D., *Resident Physician and Assistant in the Thorndike Laboratory.*

Percy B. Davidson, M. D., *Resident Physician and Assistant in the Thorndike Laboratory.*

Forrest B. Ames, M. D., *Assistant Physician for X-Ray Service.*

Herbert C. Soule, M. D., *Resident Physician, Pediatric Service.*

Edmund F. Walsh, M. D., *Clinical Bacteriologist.*

Miss Margaret McGovern, *Chief Dietitian.*

SOUTH DEPARTMENT.

Sidney H. Weiner, M. D., *Assistant Physician.*

Benjamin J. Berger, M. D., *Assistant Physician.*

Lee E. Sutton, M. D., *Assistant Physician.*

REPORT OF THE TRUSTEES.

BOSTON, February 1, 1923.

HON. JAMES M. CURLEY,
Mayor of the City of Boston:

SIR,— In compliance with the ordinances, the trustees of the Boston City Hospital present the following report of its condition for the year ending January 31, 1923.

This is the fifty-ninth annual report of the Hospital Department, which consists of the main hospital, the South Department for infectious diseases, the Haymarket Square Relief Station, the East Boston Relief Station and the Convalescent Home in Dorchester.

The Board of Trustees was organized on May 1, 1922, by the election of Mr. Joseph P. Manning as president and Mr. Thomas A. Forsyth as secretary.

In May Dr. Henry S. Rowen was reappointed to the Board of Trustees for the term ending April 30, 1927.

EXPENDITURES.

The entire expenditures for all departments of the hospital for maintenance during the fiscal year were \$1,280,067.57. Of the amount spent for maintenance, \$849,561.80 was expended upon the hospital proper and its subdivisions; \$100,383.34 on account of the Out-Patient Departments; \$226,239.43 on account of the South Department; \$63,162.09 on account of the Haymarket Square Relief Station; \$28,338.63 on account of the East Boston Relief Station; \$12,382.28 for the Convalescent Home. Of the total amount spent on the Laboratories, \$54,042.75, \$43,350.58 is included in the hospital proper expenditures, \$5,394.93 in the Out-Patient Department, \$4,820.34 in the South Department and \$476.90 in the Haymarket Square Relief Station expenditures. Of the total amount spent on the

X-Ray Laboratory and Photographic Department, \$34,119.53, \$18,765.74 is charged to the hospital proper and \$15,353.79 to the Out-Patient Department. Of the total amount spent on the Department of Physical Therapeutics, \$9,798.11, \$587.88 is charged to the hospital proper and \$9,210.23 to the Out-Patient Department. Of the total amount spent on the Department of Social Work, \$11,262.87, \$5,631.44 is charged to the hospital proper and \$5,631.43 to the Out-Patient Department. Of the total amount spent in ascertaining the settlement of patients, \$1,317.97, \$790.78 was spent on the hospital proper and \$527.19 on the South Department.

In Table No. 2 the expenditures on the hospital proper and the South Department are combined under the title Main Hospital.

The liabilities of the year ending January 31, 1923, which were paid on or after February 1, 1923, from an appropriation known as "Special Account 1921-1922," appear in Tables No. 7 and No. 8.

The methods of obtaining the per capita costs in the various departments are shown in Tables No. 1 and No. 2 of the superintendent's report. From the total operating expenses are deducted the increases in stock on hand at the end of the year over that at the beginning of the year (or the decreases are added, as the case may require). There is also deducted the cost of new construction (installation of oil-burning equipment). This gives the amount properly chargeable to maintenance. This cost of maintenance is divided by the number of days' board given ward patients or the number of visits of out-patients, to obtain the per capita cost per patient.

The per capita cost at the hospital proper was \$3.03 per day for ward patients; at the South Department, \$3.22; but, taking the hospital proper and the South Department together, the per capita cost per ward patient was \$3.07. At the Convalescent Home the per capita cost per patient was \$2.38 per day. The cost of out-patients, per visit, was 59 cents at the hospital

proper, \$2.22 at the Haymarket Square Relief Station, and 74 cents at the East Boston Relief Station. The cost of uncooked food supplies for the hospital in all its departments has been \$2.59 per person per week, or 37 cents per day.

PAYING PATIENTS.

During the year there has been collected for the care and treatment of patients of all classes the sum of \$179,362.65, itemized as follows: There was received from the Commonwealth of Massachusetts for the board of patients at the hospital proper, \$34,105.99; at the South Department, \$732; from various cities and towns for hospital proper, \$24,958.29; for South Department, \$25.14; collected at the Superintendent's office, on account of private room, ward and Out-Patient Department paying patients, \$86,506.32; of which \$15,544.18 was from insurance cases; for board of paying patients at the South Department, \$5,998.17; on account of ward and Out-Patient Department paying patients at the Haymarket Square Relief Station, \$3,858.02, of which \$2,731.27 was from insurance cases; on account of ward and Out-Patient Department paying patients at the East Boston Relief Station, \$1,445.19; \$1,322.02 of this being from insurance cases. There was also collected in all departments \$4,585 on account of insurance cases, \$2,823 of this being for X-ray cases and \$1,762 being for clinical record fees.

There has also been collected for the Hospital, by the Health Department, for the care of infectious cases at the South Department, and paid to the City Collector the additional sum of \$17,148.53.

\$108,120.47 of the income from paying patients was collected by the Overseers of the Public Welfare. The revenue was increased \$14,167.75 by X-Ray charges. It was also increased \$18,581.75 by removal of tonsils and adenoids, electro-cardiograms, issuing of *ex officio* statements, circumcisions and payment of nurses' board.

A table showing the revenue received from paying

patients, interest on trust funds, sale of old material and other sources, will be found on page 97 of the Superintendent's report.

The following is a tabular statement of the income from paying patients:

	Hospital Proper.	South Department.	Haymarket Square Relief Station.	East Boston Relief Station.	All Departments.	Totals.
Collected at the Hospital:						
From the state.....	\$34,105 99	\$732 00				\$34,837 99
From cities and towns..	24,958 29	25 14				24,983 43
From ward and private room patients:						
Miscellaneous cases,	59,713 39	5,998 17	\$1,105 75	\$48 17		66,865 48
X-ray cases.....	11,248 75		21 00	75 00		11,344 75
From insurance cases:						
House cases.....	12,132 18		646 27	19 02		12,797 47
Out-patient cases.....	3,412 00		2,085 00	1,303 00		6,800 00
X-ray cases.....					\$2,823 00	2,823 00
Record fees.....					1,762 00	1,762 00
Totals.....	\$145,570 60	\$6,755 31	\$3,858 02	\$1,445 19	\$4,585 00	\$162,214 12
Collected by City Collec- tor for contagious cases,		17,148 53				17,148 53
Totals.....	\$145,570 60	\$23,903 84	\$3,858 02	\$1,445 19	\$4,585 00	\$179,362 65

CITY HOSPITAL IMPROVEMENTS.

During the past year, the work of construction on the new Out-Patient Building has steadily progressed, and it is hoped that the building will be completed by autumn.

Following is a statement regarding the Out-Patient Building:

Loan authorized (\$360,000 issued)	\$629,000 00
Expended	245,687 75

Balance January 31, 1923 (including \$269,000 not yet issued)	<u>\$383,312 25</u>
--	---------------------

SPRINKLER SYSTEM, MAIN HOSPITAL.

When bids were opened for the installation of the Sprinkler System it was found that the bids were in excess of the money available, and \$4,000 was transferred from the Reserve Fund. The contract was awarded to C. H. Cronin Company for \$27,031. Work is progressing and it is expected that the contract will be completed in the early summer.

A statement of the account follows:

Transferred from South Department, New Buildings	\$4,190 83
Transferred from Power Heating Plant, Deer Island	20,809 17
Transferred from Reserve Fund	4,000 00
	<hr/>
	\$29,000 00
Expended	697 77
	<hr/>
	<u>\$28,302 23</u>

THE THORNDIKE MEMORIAL.

Although it was expected that this building would be finished in December of 1922, unavoidable delays have occurred, and the date of completion is now set as June 12, 1923. During the year, \$27,500 additional was received from the Executor of the Estate of George L. Thorndike, making a total of \$227,500 from the estate. A statement of the account follows:

From trustees of estate of George L. Thorndike	\$227,500 00
Interest	19,501 69
Loan appropriations	150,000 00
	<hr/>
	\$397,001 69
Expended	280,095 39
	<hr/>
Balance, January 31, 1923	<u>\$116,906 30</u>

INSTALLATION OF OIL BURNING EQUIPMENT.

During the year, the heating system has been improved by changing four of the eight boilers from coal burning

to oil burning. The contract for this work was awarded to Petroleum Heat and Power Company, the steam connections being made by Joseph W. Praught.

SURGICAL DEPARTMENT.

The Surgical Department consists of four services for general surgery, a fifth service for Genito-Urinary and Gynæcological patients, and a Dental Service. The Gynæcological portion of the Fifth Surgical Service is shortly to be separated from the Surgical Department and will either be associated with the Obstetrical Service or will become a department by itself.

The work of the different services, both in the house and the out-patient departments, has progressed satisfactorily; and the Dental Service has greatly increased in size and importance. The department has met with severe losses in its personnel, owing to the regrettable resignations of Dr. J. B. Blake and Dr. W. E. Faulkner, and the lamented deaths of Dr. E. H. Nichols and Dr. Ernest B. Young. All these were Surgeons-in-Chief and the heads of their respective services. Their loss to the hospital will be very great.

The heads of the services at the present time are: Dr. Paul Thorndike for the Genito-Urinary Division of the Fifth Surgical Service, Drs. F. B. Lund, H. A. Lothrop, F. J. Cotton and J. C. Hubbard, for the general Surgical Services, with Dr. N. R. Mason as acting head of the Gynæcological Division of the Fifth Service, (pending the appointment of Dr. Young's successor,) and Dr. Stephen P. Mallet for the Dental Service.

The surgical teaching since Doctor Nichols' death has been under the supervision of Dr. Howard A. Lothrop, ad interim Professor of Clinical Surgery until fall: Dr. Frank H. Lahey having been appointed Professor of Clinical Surgery beginning in the fall of 1923.

GYNÆCOLOGICAL AND OBSTETRICAL SECTION.

During the past year, the Gynæcological and Obstetrical Section of the Fifth Surgical Service has had its

facilities for the care of patients more heavily taxed than ever before. During the year 1920 there were 403 deliveries in Ward S: during 1921, 565: and during 1922, 652. It has happened repeatedly that the wards, rooms and halls in Ward S have been filled with patients. Only through the vigilance of the House Staff and the pains-taking care of the Nurses have serious epidemics been avoided. It has been necessary to care for some patients in the Casualty Ward and in Ward L. The conditions produced by over-crowding these patients and caring for them in different wards increases markedly the great risk of sepsis.

The welfare of the babies has been increased since the establishment of close co-operation with the Pediatric Service. Both the Gynæcological and Obstetrical Service and the Pediatric Service are of the opinion that the greater welfare of the babies demands a supply of breast milk. Mortality would be diminished if a sufficient supply could be secured.

The Gynæcological and Obstetrical Service is soon to be separated from the Surgical Department. During the year the Visiting and House Staffs have worked in harmony and have faithfully performed their duties. In the House, a teaching clinic has been carried on nearly every week day for men in the Harvard Medical School and for post-graduate Students. Instruction of nurses has been carried on by the Visiting Staff, six obstetric courses of six lectures each having been given.

The shortage of nurses has been felt, but, owing to the zeal and industry of those on duty the patients have received good care.

The Service has suffered a serious and well nigh irreparable loss in the passing of Dr. Ernest Boyen Young, its late Chief-of-Staff. The results of his scholarly and conscientious teaching through his many years of service will preserve his memory because they will live after him. It will be the aim of the Service to "carry on" as he pointed out the way in efficient and great service to the community.

Appended are the statistics of the work of the Service and the Prenatal Clinic for the past year.

STATISTICS.

Cases admitted to Ward S	1,308	
Cases admitted to Ward H	1,025	
	<hr/>	2,333
New patients treated in Out-Patient Department .		1,486
Visits of patients to Out-Patient Department . .		4,152

Three hundred and eighty four obstetrical cases have been received in Ward S from the Out-Patient Department, and 268 have come from other sources.

In the obstetrical ward, 652 mothers have been treated with 21 deaths.

Sixty-one children have died after birth; 23 children were still born. Of the 652 delivered, 485 were normal.

In Ward S operating room there have been 435 operations; in Ward H operating room there have been 301 operations, making a total of 736.

In the Pre-Natal Clinic, there were 575 new patients, 348 of whom were admitted to Ward S and 14 referred to other hospitals and 9 to Maternity Homes.

The routine pre-natal cases were connected with the Department of Public Health for pre- and post-natal literature. A monthly report was also sent to the Federal Bureau of the activities in the Venereal Clinic. Of the 202 cases unaccounted for many came for confirmation of diagnosis, 6 were later admitted to Ward H as self-induced abortion cases. The remainder were undoubtedly delivered at home, or at hospitals unknown to us.

OPHTHALMIC DEPARTMENT.

During the past year, the out-patient work of the Ophthalmic Department has been somewhat interfered with by the reconstruction work going on in the building. At the same time, the clinics have been unusually well attended, and the increase in refraction work is especially noticeable. The number and character of the house cases compares favorably with that of former years.

AURAL DEPARTMENT.

Many changes have come to the Aural Department during the past year. The much regretted resignations of Drs. Coffin, Borden and Vogel have made necessary better unification and co-ordination of the work.

This department should be organized as the Surgical Services are, with a Surgeon-in-Chief to direct the policies of the department.

With this in view, the Acting Chief has initiated changes which we believe will materially improve the service.

In the Out-Patient Department, the distinction between new and old cases is kept on the records, but not in the work. Each patient, new and old, receives careful, continued treatment by one member of the staff, who is responsible for the care of that patient. While this arrangement was inaugurated only a month ago, definite improvement is already noticeable, as each case is carefully studied.

Another change is the addition of a fourth House Officer, with title of Resident, he being responsible for emergencies and helping out in both Aural and Ophthalmic Services, being responsible for proper supervision of tonsil and septum work, also serving as the official observer over ear, nose and throat conditions at the South Department.

Individual research is being encouraged. Investigation of end results in tonsillectomy is now under consideration.

NEUROLOGICAL DEPARTMENT.

The Neurological Department shows a diminished number of cases treated in the wards during the past year. This has been due in part to the fact that we have had no epidemic of poliomyelitis or encephalitis or other infectious disease of the nervous system demanding our care, and in part to the lessened number of alcoholic patients since prohibition has cut down the number of excited patients. There still remains however a sufficient number of cases of psychoses and

acute alcoholism which show excitement to render their management extremely difficult without the ward fitted up for treatments by continuous hot water baths. This need will be met soon, as the present plan of the hospital will enable us to reopen this ward when the new Thorndike building is ready for use.

The Out-Patient Department shows no such falling off in numbers, and the members of the staff find the social service worker, assigned to this department, of the greatest assistance in the proper management and disposition of their cases, as well as a great aid in procuring needed information of various sorts in regard to the patients coming to the hospital for treatment.

The steady increase of the number of cases under treatment for syphilitic affections of the central nervous system makes it increasingly desirable that one or more of the members of the staff should be especially assigned to this work, and plans are under consideration by which this may be done, and we feel convinced that this will add to the efficiency of the work, without allowing the other cases to suffer.

The most pressing need of the department at the present time is more beds so that we may be able to treat all of the cases coming to the hospital with diseases of the nervous system.

DERMATOLOGICAL DEPARTMENT.

During the past year 2,255 new patients were seen in the Out-Patient Department. Of this number 343 were syphilitics.

The work carried on in the department is as good as can be expected. When we get into our new quarters, the standard should improve provided the service is supplied with more apparatus, a permanent technician, and nurses who are not frequently changed.

DEPARTMENT OF PHYSICAL THERAPEUTICS.

The following statistics represent the work of the Department of Physical Therapeutics during the past year:

The total number of treatments given was 101,875. These treatments were given to 2,250 patients, of whom 375 were house patients and 1,875 out-patients. The out-patients made 33,925 visits, of which 1,371 were counted in some other Out-Patient Service beside being counted in this department. Of the 1,875 out-patients treated, 1,770 were counted in some other Out-Patient Service beside being counted in this department.

PATHOLOGICAL DEPARTMENT.

For the first time since 1897 the number of autopsies has exceeded 300. In that year, there were 407. This last year we had 336. This seems encouraging until we compare the number of deaths with the number of postmortems obtained. We obtained this last year only a little more than half as high a percentage of autopsies as we did twenty-five years ago.

The better result of this last year over the intervening years has been due to the increased interest taken in the matter by the heads of some of the services, but it is difficult to keep them stimulated all the time so that they will pass on the proper spirit to their house officers.

The demand for men trained in pathology continues greatly in excess of the supply. On this account it is impossible to retain assistants in the laboratory for a longer period than the one to two years needed to train them in fundamentals. The men leave just as they are in a position to apply their training to the study of unsolved problems.

For this reason it seems advisable to bring back to the laboratory this year Dr. Frederic Parker, Jr., who was trained here for five years, and is now finishing his third year at Columbia University under Prof. Hans Zinsser.

Considerable excitement was caused in the hospital last spring by the arrival from one family, of the mother and daughter, while the father was taken to the Carney Hospital. The symptoms were obscure, and the clinical history not helpful. The daughter died first and a

postmortem examination disclosed a dural endothelioma. At the autopsy (two days later) on the mother, the results were negative, until a bit of muscle was examined fresh under the microscope. In it were actively motile trichinae. This finding cleared up the cause of the symptoms of all three cases. Carney Hospital, notified of the results, examined the blood of the father and obtained a marked eosinophilia. The cause was the usual one, eating of imperfectly cooked pork chops. A more thorough clinical examination of the blood and of the stools of the mother and daughter probably would have cleared up all mystery connected with the two cases admitted to this hospital.

As stated in previous reports, hemochromatosis is a subject which has interested the laboratory for several years. It is considered a rare disease, as less than one hundred cases have so far been recorded. During the past year we have had at autopsy from the hospital seven cases. In addition, two outside cases occurring in Boston, were put at our disposal. Only one of them had the three classical signs on which the clinical diagnosis of the disease is necessarily based, namely, cirrhosis of the liver, diabetes, and pigmentation of the skin. The other eight cases were earlier stages of the disease showing chiefly pigment cirrhosis. The lesion was clinically unsuspected and the accidental findings at autopsy illustrate anew the value of routine postmortem examination in all cases when possible.

The man who showed clinically the signs of the disease had worked for twelve years in a shop "milling and turning copper and brass." This fact in his history is of much significance in its bearing on the experimental work we have been carrying on in producing cirrhosis of the liver in rabbits by means of chronic poisoning with copper. In human pigment cirrhosis, two yellow pigments are present in the liver and other organs, one, called hemosiderin, gives the reaction for iron, the other, hemofuscin, does not. We have been able to show that the hemofuscin is deposited first and in time is changed to hemosiderin.

In the pigment cirrhosis of rabbits produced by chronic poisoning with copper only hemofuscin was present in our earlier work. It is now possible to state that, in rabbits fed smaller doses of copper salts so that they lived for two years, many of the hemofuscin granules have changed to hemosiderin and give the iron reaction. This point strengthens greatly the theory that hemo-chromatosis is due to chronic poisoning with copper.

Owing to the interest being taken by Doctor Peabody and his staff in the study of pernicious and related forms of anemia the Pathological Laboratory is making every effort to place at their disposal as perfect microscopic preparations as can be made of the various organs and tissues obtained at postmortem examinations of such cases. Four recent autopsies have furnished excellent material for a beginning and have led to much study with the microscope. The close association of the workers in the two laboratories should be of much mutual benefit and work for the good of the hospital.

WORK OF THE PATHOLOGICAL LABORATORY FOR THE YEAR.

Autopsies	336
Surgical diagnoses	2,571
Clinical bacteriology (positive)	549
Clinical bacteriology (negative)	447
Blood cultures (positive)	185
Blood cultures (negative)	693
Guinea pig inoculations	204
Bacillus diphtheria (total)	20,718
Bacillus diphtheria (positive)	4,394
Sputa typed	385
Lung punctures and chest taps typed	166
Wassermanns	6,064
Number of positives	822

CLINICAL LABORATORY DEPARTMENT.

The work of the department is definitely divided into clinical and laboratory.

Clinical.— The department has supervision over practically all the cases of surgical diabetes in the hospital

as well as over a number of the cases on the medical wards. In addition, the department has supervision over a large number of cases of nephritis. These cases are all referred to the laboratory department by the various medical and surgical services. For a period of about a year an attempt was made to set aside a special male and female medical ward in order that the cases mentioned above might be segregated. For various reasons, but particularly because of lack of hospital space, it has been impossible to continue such segregation and at present cases are assigned to the regular wards for the respective services. This involves considerable difficulty in the proper dietetic management of such patients. In addition the laboratory department also has charge of a Diabetic and Nephritic Out-Patient Department Clinic and co-operates in the management and study of cases in the Thyroid Clinic.

Laboratory.—The department supervises the routine clinical laboratory work done on cases from the medical and surgical services. In addition, special laboratory tests are done on such cases of nephritis, diabetes and thyroid disease which are referred to the department for study. During the past year 305 cases of nephritis, 202 cases of diabetes have been carefully studied in this department and in addition, 500 basal metabolism tests have been done on 412 cases referred through the Thyroid Clinic. In addition to the routine work necessary in the proper study of the above mentioned cases, the department is actively engaged in the study of research problems in connection with these same diseases. Furthermore, it is gratifying to note that the work of the department is becoming recognized more and more by physicians outside the hospital and also by physicians outside the City of Boston.

The following figures represent the work of this department for the year:

Number of ward patients treated	507
Number of out-patients treated	230

Number of visits of out-patients	3,450
Number of ward patients counted elsewhere besides being counted in this department	507
Number of out-patients counted elsewhere beside being counted in this department	230

THORNDIKE MEMORIAL LABORATORY.

It was hoped that the new building for the Thorndike Memorial Laboratory would be completed by October 1, 1922, but the work was still far from finished on the first of January, 1923.

A small staff, however, has been brought together and they are anxiously awaiting the completion of the building so that it will be possible for them to carry on their investigation in a more satisfactory manner. The director of the laboratory took up his duties on March 1, and since that time has been devoting himself largely to administrative problems connected with the organization of the staff, the construction and equipment of the building.

On September 1, Dr. Henry Jackson, Jr., began his appointment as Assistant, and Dr. G. O. Broun and Dr. Percy B. Davidson came on duty as Assistant Resident Physicians in the Thorndike Memorial Laboratory; and part of their time has been devoted to planning the equipment of the laboratory, but the rest of it has been spent in investigation carried on in the other laboratories of the hospital, and, to some extent, in the laboratories of the Harvard Medical School.

In October Dr. Frank J. Berry, of Providence, joined the group, and he has recently been appointed to the position of Assistant in the Thorndike Memorial Laboratory. Doctor Berry will give about three mornings a week to the work of the hospital.

During the autumn Miss Olivia Ames and Miss Sylvia Warren began their work as Volunteer Assistants, and they have been giving valuable aid in certain hematological investigations.

It is now hoped that the Thorndike Memorial Labora-

tory may be completed and ready for occupancy in the early spring and it will, of course, be much easier for the staff to do effective work when they are settled in permanent and well equipped quarters.

X-RAY DEPARTMENT.

Following is the statistical report of the X-Ray Department for the year ending January 31, 1923:

Ward Patients Treated.

Routine cases	8,795
Gastro-intestinal examinations	745
X-ray treatments	29
	<hr/>
Total ward patients treated	9,569

Out-Patients Treated.

Routine cases: Patients from this hospital	7,076
Routine cases: Patients from outside physicians	1,231
Gastro-intestinal examinations:	
Patients from this hospital	697
Gastro-intestinal examinations:	
Patients from outside physicians	530
X-ray treatments, patients from this hospital	122
	<hr/>
Total out-patients treated	9,656

Total number of patients examined and treated	<u>19,225</u>
---	---------------

Visits of Out-Patients.

Those counted only in this department	1,021
Those counted also in another department	9,298
	<hr/>
Total visits	<u>10,319</u>

Films Taken.

Routine cases	31,082
Gastro-intestinal examinations	7,159
Number of dental films	5,399
	<hr/>
Total films taken	<u>43,640</u>

At the East Boston Relief Station, 504 films were taken during the year.

DEPARTMENT OF IMMUNOLOGY.

The following figures represent the work accomplished in the Department of Immunology during the year:

Total number of out-patients treated	996
Out-patients treated in this department only	376
Out-patients counted also in another department	620
Total number of visits to out-patient clinic	10,265
Visits counted only in this department	1,407
Visits of out-patients counted also in another department	8,858
Number of patients under treatment in vaccine clinic,	821
Number of patients under treatment in neuro-syphilis clinic	175
Number of visits to vaccine clinic	8,864
Number of visits to neuro-syphilis clinic	1,401
Number of curative vaccine inoculations	7,457
Number of protective typhoid and paratyphoid inoculations	257
Number of individuals receiving protective inoculations against typhoid and paratyphoid	88
Number of protective antirabic injections	335
Number of individuals receiving protective injections against rabies	22
Number of nurses Schick-tested (for diphtheria), receiving:	
First Schick test	73
First and second Schick test	8
Second Schick test	14
Second and third Schick test	3
Third Schick test	2
—	100
Number of Schick tests done	111
Number of nurses receiving toxin-antitoxin inoculations against diphtheria	57
Number of toxin-antitoxin inoculations against diphtheria	190
Total number of visits for Schick tests and toxin-antitoxin inoculations, of nurses	353
Number of individuals, other than nurses, receiving Schick tests (for diphtheria)	166
Number of Schick tests done	166

Number of individuals receiving toxin-antitoxin inoculation against diphtheria	74
Number of toxin-antitoxin inoculations against diphtheria	214
Total number of visits for Schick tests and toxin-antitoxin inoculations of individuals, other than nurses	462
Number of intravenous Arsphenamine injections	761
Number of introdural Arsphenaminized serum injections	525
Number of mercurial injections	36
Number of Swift-Ellis sera prepared by laboratory	535
Number of lumbar punctures done for diagnoses	52
Specimens of blood taken for Wassermann tests	290
Specimens of spinal fluid taken for Wassermann tests	251

Convalescent serum work done by laboratory for South Department.

Specimens of blood received from South Department from:

Convalescent scarlet fever patients	43
Convalescent measles patients	22
Convalescent varicella patients	5
Convalescent parotitis patients	4
Normal patients	3
	—
	77

Number of doses of serum prepared by laboratory from:

Convalescent scarlet fever blood	78
Convalescent measles blood	100
Normal blood	12
	—
	190

DENTAL SERVICE.

The following figures represent the work accomplished in the Dental Department during the past year:

Number of ward patients treated	258
Number of out-patients treated	131
Number of visits of out-patients	167
Teeth extracted	1,072
Impacted teeth removed	16
Root amputations	1

Local anesthesia	275
Nitrous oxide anesthesia	43
Ether anesthesia	48
Ethyl chloride	33
Alveolar abscesses	43
Alveolar abscesses opened on face	23
Treatments	84
Consultations	204
Osteomyelitis	4
Vincent's angina	5
Necrosis of jaw	2
Antrum operations	8
Simple fractures treated	76
Compound fractures treated	13
Epulis	1

GASTRO-INTESTINAL SERVICE.

During the year a strong effort has been made to build up this clinic, and to follow up discharged ward cases, both medical and surgical. The object has been to give the patients a better diagnosis and better medical care, to give additional information to members of the staff, and to give an opportunity for some research work in gastro-enterology. All these aims have been realized to a considerable degree. We have an abundance of skilled medical assistance in the out-patient clinic. Two members of the service are always present, usually three and often four. We have been much hampered by cramped quarters during the construction of the new Out-Patient Department.

The new history sheets and diet slips have proved very useful. Much more careful histories have been taken, and much more laboratory work has been done in connection with the patients, and the laboratory work has been much better standardized, both in the Out-Patient Department and wards, by constant supervision throughout the year. This more complete and accurate study of the patient has definitely improved the diagnosis in all cases. The per cent of correct diagnoses has been

very high in the cases where the diagnosis has been verified by operation or autopsy.

The value of the clinic in following up gastro-intestinal cases which have been discharged from the medical and surgical wards is steadily growing. This is particularly valuable in gastric and duodenal ulcers, possible chronic gall-bladders and post-operative cases. This work is steadily increasing, but is still far too limited. Only a small fraction of such cases discharged from the wards report to the out-patient clinic. No one would consider giving a diabetic several weeks of careful ward treatment, and then discharging him without any supervision. It is just as necessary to follow the peptic ulcer, which has received medical or surgical treatment in the wards, for several months, at least, after discharge, as it is the diabetic.

The value of a continuous service of the same doctor to the same out-patient has been very great. Many chronic cases have been followed by the year instead of for a few weeks or months.

Patients from this clinic have been used for post-graduate teaching, and, in spite of our cramped quarters, some research has been carried out on the Simultaneous Variation in Acidity of different portions of Gastric Contents and its relation to Fractional Analysis, by Doctors White and Jankelson. This was read at the annual meeting of the Association of American Physicians in May, 1922, and published in the *Journal of the American Medical Association* in 1922. Work has also been begun by Doctors White and Jankelson on Hydrogen-Ion Analysis of the Acidity of Gastric Contents. We have co-operated with Doctor Davidson in his research on the Phenoltetrachlorophthalein Test for Liver Function by providing as many suitable cases as possible. We wish to acknowledge the valuable assistance of Doctor Shattuck in consultation and fecal examinations in cases of chronic diarrhea. A complete list of the publications of the members of this clinic will be found elsewhere.

The following figures represent the work of the clinic for the year:

Number of ward patients treated or seen in consultation	113
Number of out-patients treated or seen in consultation	165
Number of visits of out-patients	315
Number of out-patients counted elsewhere beside being counted in gastro-intestinal clinic	165
Number of visits of out-patients counted elsewhere beside being counted in gastro-intestinal clinic	315

BLOOD SERVICE.

The work of the Blood Service during the past year is represented by the following figures: Three hundred eighty-three patients were treated; 250 of these being house patients and 133 out-patients. The out-patients made only one visit each. The blood donors, numbering 290, supplied for 160 transfusions. There were 1,642 blood counts done: 821 blood films examined and 111 coagulation tests performed.

CARDIAC CLINIC.

The number of out-patients treated in the Cardiac Clinic during the past year has been 633, these cases having been referred to the clinic by the Medical or Pediatric Out-Patient Departments. Two hundred thirty-nine of these were new patients. These 663 patients made 884 visits. Four hundred fifty of these visits were counted in another out-patient clinic.

PNEUMONIA SERVICE.

The Special Service was closed in June, having been in operation since February, 1919. During the months from February to June, 1922, 357 patients were cared for.

NUTRITION CLINIC.

The work of the Nutrition Clinic from February 1, to June 17, 1922, is represented by the following figures:

The number of out-patients treated was 19. These

nineteen out-patients made 128 visits. All of these patients were referred to the clinic by some other out-patient service.

On June 17, the Nutrition Clinic became a part of the pediatric service.

DEPARTMENT OF SOCIAL WORK.

The following statistics were gathered on certain groups of patients referred to the department during the year for definite service outside the hospital:

SOCIALLY RECORDED WORK.

Number of patients carried over from previous year,	292
Reinstated during year	159
New patients	1,892

Total number of record cases dealt with during year.	<u>2,343</u>
--	--------------

The 2,051 new and reinstated record cases were brought to our notice from the following sources:

	House.	O. P. D.	Outside the Hospital.	Total.
Medical services.....	465	155	.....	620
Surgical services.....	344	89	.....	433
Gynæcological.....	177	88	.....	265
Nerve.....	64	90	.....	154
Pediatric.....	81	4	.....	85
Skin.....	8	72	.....	80
Eye.....	6	14	.....	20
Ear.....	9	1	.....	10
South Department.....	5	.....	.....	5
Special service.....	6	.....	.....	6
Genito-urinary service.....	.....	1	.....	1
Executive office.....	39	.....	.....	39
Sources within the hospital.....	77	48	.....	125
Sources outside the hospital.....	.....	.....	208	208
Totals.....	1,281	562	208	2,051

SOCIALLY UNRECORDED WORK.

In addition to our social record case work we gave definite service outside the hospital to a monthly average of 184 patients on whom no social records were made. The majority of these were out patients.

The monthly average of patients given definite service outside the hospital, including socially recorded and unrecorded, was as follows:

Monthly average of socially recorded cases	446½
Monthly average of patients served without social records	184
	<hr/>
Total monthly average of patients given definite service outside the hospital	<u>630½</u>

NATURE OF SERVICE GIVEN OUTSIDE THE HOSPITAL.

As in previous years our service to these patients has included securing continued oversight and care in specialized institutions, as maternity and convalescent homes, chronic hospitals, sight saving classes, evening and dental clinics. We have also helped certain of the patients to obtain material relief, legal aid, and temporary or more permanent readjustment of their home environment through relatives and friends, employers, public or private social agencies.

In connection with the above service to these patients, we paid 4,626 visits outside the hospital to homes, institutions and agencies. Three hundred forty-four of these were follow-up visits, mostly to the homes, in the interests of patients on whom no social records were made.

The paid staff included a director, an assistant director, two clerical workers (three for six weeks), a librarian for house children and the case workers. The monthly average of the paid staff was $19\frac{1}{2}$. The monthly average of case workers was $14\frac{1}{3}$.

The granting of one additional salary from the hospital budget brought the number of workers so provided for up to ten. As has been the case in previous years, the workers selected to receive the city salaries

were all case workers, dealing directly with the patients. These ten city salaries were all supplemented to a greater or less extent through contributions from the private committee. We have continued to receive the \$1,000 subsidy from the State Board of Health towards the follow-up work for patients under treatment for syphilis and gonorrhea in the Skin and Gynæcological Out-Patient Departments.

In addition to the service given to patients outside the hospital we continued to carry on the library work for ward children. A total of 6,119 volumes were circulated. The number would have been larger but for the 271 days of quarantine in Wards C, I, E and N. In addition to distributing books, the children's librarian organized story-telling, games, kindergarten work, and occasional festivities, assisted by students from the Wheelock and Boston Normal Schools and other volunteers.

The interest of the public was secured, resulting in gifts of picture books, toys, flowers. A small portable victrola was donated and has proved the source of much cheer.

Grade teaching for ward children of school age, begun by us through volunteer service, has continued to be carried on by the regular teacher appointed by the Public School Department. Mrs. McHugh reports the monthly average of children referred to her for teaching as forty-five, actually able to do the work, thirty-three.

EXPENDITURES.

The following shows the money contributed for the support of the work during the year through the private committee, from the hospital budget, and from other sources:

Through the Committee.

For salaries	\$16,443 11
For car fares	218 35
For postage, additional telephoning, supplies	228 24
For publicity	726 38
<i>Carried forward</i>	<i>\$17,616 08</i>

<i>Brought forward</i>	\$17,616 08	
For books and supplies for children's library work	200 00	
	<hr/>	\$17,816 08

To provide special apparatus, convalescent care, etc., outside the hospital for certain patients:

From the Committee of the Permanent Charity Fund	\$392 63	
From money raised through workers,	845 78	
Donation from Mr. Thomas Forsyth, for children's library work	10 00	
Donation from Mrs. E. H. Curtis	25 00	
	<hr/>	1,273 41
Total		<u><u>\$19,089 49</u></u>

In addition to the \$19,089.49, as above, there was expended from the hospital budget:

For salaries	\$9,977 88
For carfare	521 50
For postage	121 56
For printing and stationery	312 93
For furniture and furnishings	41 77
For telephones	287 23
Total	<u><u>\$11,262 87</u></u>

Beside this, \$79.22 was spent from the Hetty Lang Shuman Library Fund on books for the Children's Library.

COMMITTEE.

Mrs. George H. Monks, Chairman	Mrs. Thomas Devlin
Mrs. Reid Hunt, Secretary	Mrs. Henry Ehrlich
Mr. William C. Endicott, Treasurer	Mrs. F. C. Palmer
Miss Gertrude L. Farmer, Director	Mrs. E. D. Pickman
Mrs. Henry Andrews	Mrs. I. A. Ratschesky
Mrs. E. H. Bradford	Mrs. William H. Robey
Mrs. C. A. Coolidge	Mrs. Milton Rosenau
Mrs. Harvey Cushing	Mrs. Romney Spring
	Miss Anna Thorndike
	Mrs. E. B. Young

OUT-PATIENT DEPARTMENT.

The Out-Patient Department statistics may be found on pages 64, 66 and 68 of the Superintendent's report.

The number of patients treated in the Out-Patient Department during the past year has been 37,419. The number of visits was 167,130.

SOUTH DEPARTMENT.

During the twenty eight years that the department has been in operation, 68,456 patients have been received, nearly all ill with an infectious disease.

HAYMARKET SQUARE RELIEF STATION.

This Relief Station has been in commission twenty-one years. In these twenty-one years, 673,822 patients have been treated. The number of patients treated during the first year was 20,150 and during the present year, 26,764. These patients received 27,188 days' treatment.

EAST BOSTON RELIEF STATION.

In the fourteen years that the East Boston Relief Station has been in operation, 177,318 patients have been treated. For the year ending January 31, 1923, 12,061 patients were treated. These patients received 36,919 days' treatment.

CONVALESCENT HOME.

During the thirty-two years that the Convalescent Home has been in operation, 11,536 patients have been benefited.

The number of patients treated during the past year was 281 who received 5,170 days' treatment.

WEST DEPARTMENT.

The West Department is leased to the United States Government for five years beginning July 1, 1921, upon a rental based upon the tax valuation. The income from the same this year has been \$32,243.75.

OBITUARY.

Dr. Edward Hall Nichols, Surgeon-in-chief, passed away suddenly in June. The following resolutions were adopted:


"The Trustees of the Boston City Hospital wish to record their deep sense of the loss which the hospital has sustained in the death of Dr. Edward Hall Nichols. During all of Doctor Nichols' professional life he was in its service. Immediately after his graduation from the Harvard Medical School he was appointed a surgical house officer, and on the completion of his term of service he became one of the Executive Assistants. In 1897 he was appointed Surgeon to Out-Patients, and by successive promotions rose to the position of Chief of Service.

"He combined the attribute of a great surgeon, manual dexterity, a good technique, exceptional diagnostic ability, mental alertness, self confidence and courage. Though possessing keen interest in the scientific aspects of medicine and gifted with rare technical skill, the welfare of the patient was for him the sole consideration in deciding the question of operation. His patients trusted him, and he deserved their confidence.

"His vivid personality, his picturesque use of language, his lively interest in the subject he was presenting and his knowledge of it, made him a brilliant and successful teacher. His love of truth, his human interest, his scorn of subterfuge and meanness, made a lasting impression on his students and house officers. Though he had reached the age when crystallization frequently begins, his mind was still alive to new ideas and some of his best work was done in the past few months. The hospital has lost a great surgeon, a zealous friend and a kindly critic. In every office which he held he showed untiring devotion and high qualities of heart and brain. He has left an example of sterling character, of loyal service and of good work."

The death of Dr. Ernest Boyen Young, Surgeon-in-Chief, which occurred in January, 1923, was deeply lamented. The hospital staff expressed their sorrow in the following words:

"In the death of Ernest Boyen Young, the Staff feel that they have sustained an irreparable loss. He had served the hospital on the Gynæcological Staff faithfully for twenty-four years, rising through the various grades to a surgeon-in-chief. The hospital was no perfunctory affair with him. He made it his first interest, and gave to it most freely of his strength. Not only in the performance of the actual work of his department was he of value; he was also an excellent counsellor on matters of hospital policy, and took a great and intelligent interest in the affairs of the hospital as a whole. To the building up of his own department to its present high state of efficiency, he had done more than his share. To his subordinates he was always fair, kindly and considerate. Quiet, reserved, dignified, able, his personality was an ornament to our staff. His rare and kindly smile, when it came, spoke of great and genuine friendliness. His surgery was thorough, efficient and neatly accomplished, and he never as an operator lost sight of the best interests of his patient. He loved to teach, and for years had played a valuable part in the teaching of his specialty in the Harvard Medical School. He gave freely of his services to the poor and unfortunate. During the war he joined the Army Medical Service with the rank of captain. It was natural for him to forget his selfish interests in his desire to serve his country. His family life was of the happiest. He leaves a record of which his wife and son may be proud. We, his colleagues, feel that the hospital is the better for his long connection with it. In our meetings, we shall miss his wise and thoughtful counsel; in the wards and corridors, his friendly greeting."



CHANGES IN MEDICAL AND SURGICAL STAFF.

The following members of the Visiting Staff resigned their positions: William E. Faulkner, M. D., Visiting Physician; Harold Bowditch, M. D., Second Assistant Visiting Physician; John Bapst Blake, M. D., Surgeon-in-Chief; Henry Tolman, Jr., M. D., Surgeon for Diseases of Ear and Throat; George L. Vogel, M. D., Surgeon for Diseases of Ear and Throat; Samuel W. Ellsworth, M. D., Physician for X-Ray Service; Alexander S. MacMillan, M. D., Assistant Physician for X-Ray Service; Herman A. Osgood, M. D., Assistant Physician for X-Ray Service.

The following promotions were made: Louis M. Freedman, M. D., from the position of Assistant Surgeon for Diseases of Ear and Throat to that of Surgeon for Diseases of Ear and Throat; Paul F. Butler, M. D., from the position of Assistant Physician for X-Ray Service to that of Physician for X-Ray Service; Frederic J. Cotton, M. D., from the position of Visiting Surgeon to that of Surgeon-in-Chief; Frank H. Lahey, M. D., from the position of First Assistant Visiting Surgeon to that of Visiting Surgeon; Otto J. Hermann, M. D., from the position of Out-Patient Surgeon to that of First Assistant Visiting Surgeon; Somers Fraser, M. D., from the position of Out-Patient Surgeon to that of First Assistant Visiting Surgeon; Howard M. Clute, M. D., from the position of Assistant to Out-Patient Surgeons to that of Out-Patient Surgeon; Donald Munro, M. D., from the position of Assistant to Out-Patient Surgeons to that of Out-Patient Surgeon.

The following appointments were made: Rockwell A. Coffin, M. D., Consulting Aural Surgeon; John Bapst Blake, M. D., Consulting Surgeon; Townsend W. Thorndike, M. D., Curator of Hospital Museum; Francis W. Peabody, M. D., Visiting Physician; Oscar M. Schloss, M. D., Visiting Pediatrician; Dwight O'Hara, M. D., Second Assistant Visiting Physician; Henry Jackson, Jr., M. D., Second Assistant Visiting Physician; Robert B. Hunt, M. D., Second Assistant

Visiting Physician (Pediatric Service); Augustine W. McGarry, M. D., Second Assistant Visiting Physician (Pediatric Service); Andrew Nichols, M. D., Second Assistant Visiting Physician (Pediatric Service); Joseph Garland, M. D., Second Assistant Visiting Physician (Pediatric Service); Hiram H. Amiral, M. D., Second Assistant Visiting Physician, was assigned to the Pediatric Service; William R. Morrison, M. D., Assistant to Out-Patient Surgeons; Edward Harding, M. D., Assistant to Out-Patient Surgeons; Thomas K. Richards, M. D., Assistant to Out-Patient Surgeons; Philip E. A. Sheridan, M. D., Assistant Surgeon for Diseases of Ear and Throat; William F. Regan, M. D., Assistant Surgeon for Diseases of Ear and Throat; Edmund J. Butler, M. D., Assistant Surgeon for Diseases of Ear and Throat; Philip R. Dwyer, M. D., Assistant Surgeon for Diseases of Ear and Throat; Chester R. Mills, M. D., Assistant Surgeon for Diseases of Ear and Throat; Percy L. Dodge, M. D., Second Assistant Visiting Physician for Diseases of the Nervous System; Alexander S. MacMillan, M. D., Assistant Physician for X-Ray Service; Herman A. Osgood, M. D., Assistant to the Physician for X-Ray Service; Forrest B. Ames, M.D., Assistant Physician for X-Ray Service.

The following temporary appointments were made for periods of six months:

To the position of Assistant to the Visiting Physicians: Charles W. Finnerty, M. D., beginning March 15, 1922; George Fuller, M. D., beginning July 14, 1922; Daniel J. Hogan, M. D., beginning August 1, 1922; Louis F. Curran, M. D., beginning September 8, 1922; Cecil K. Drinker, M. D., beginning November 1, 1922; I. R. Jankelson, M. D., beginning November 7, 1922; Max Theiler, M. D., beginning December 1, 1922; Frank S. Cruickshank, M. D., beginning January 1, 1923.

To the position of Assistant to the Visiting Physicians (for Pediatric Service): Robert B. Hunt, M. D., beginning July 1, 1922; Augustine W. McGarry, M. D., beginning July 1, 1922; Alexander Nichols, M. D.,

beginning July 1, 1922. Hiram H. Amiral, M. D., Second Assistant Visiting Physician, was appointed to serve on the Pediatric Service for six months beginning July 1, 1922.

To the position of Assistant to Out-Patient Surgeons: Gordon D. Atkinson, M. D., beginning February 14, 1922 also beginning December 8, 1922; John J. Lucy, M. D., beginning March 31, 1922; Edward M. Hodgkins, M. D., beginning May 5, 1922; Pierce P. McGann, M. D., beginning May 15, 1922; Edward Harding, M. D., beginning June 2, 1922; Edward B. Ormsby, M. D., beginning July 1, 1922 also beginning January 1, 1923; Paul Gustafson, M. D., beginning July 1, 1922; Alice Huang, M. D., beginning July 1, 1922; Joseph H. Burnett, M. D., beginning July 1, 1922; Eugene E. O'Neil, M. D., beginning September 20, 1922; Llewellyn H. Rockwell, M. D., beginning September 29, 1922; Sidney C. Wiggin, M. D., beginning November 7, 1922.

To the position of Assistant to the Surgeon for Diseases of Ear and Throat; Charles W. De Wolf, M. D., beginning February 1, 1923.

PUBLICATIONS OF THE MEDICAL AND SURGICAL STAFF.

Following is a list of the scientific papers published by members of the Hospital Staff during the year:

"Red-Green Color Blindness in Three Allied Families," by Dr. Harold Bowditch. *Journal of Heredity*, Washington, D. C., Vol. XIII, March, 1922.

"Subphrenic Abscess," by Dr. Howard M. Clute. *Boston Medical and Surgical Journal*, Vol. 187, No. 20, pages 681-687, November 16, 1922.

"Spinal Accessory Paralysis Following Neck Dissections," by Dr. Frank H. Lahey and Dr. Howard M. Clute. *Boston Medical and Surgical Journal*, January 5, 1922.

"End Results of the Surgical Treatment of forty-eight cases of Tuberculous Cervical Adenitis," by Dr. Frank H. Lahey and Dr. Howard M. Clute. *Boston Medical and Surgical Journal*, March 2, 1922.

"Acute Puerperal Inversion with the Report of a case," by Dr. Joseph P. Cohen. *Boston Medical and Surgical Journal*, March 16, 1922.

"Stiff Fingers," by Dr. Frederic J. Cotton and Dr. Edward J. Sawyer. *Boston Medical and Surgical Journal*, Vol. 186, No. 6, pages 183-185, February 9, 1922.

"The Surgeon in Industry," by Dr. Frederic J. Cotton. *King County Medical Society Bulletin*, 1922.

"Obstruction of Superior Vena Cava by Primary Carcinoma of Lung," by Dr. Harold W. Dana. *American Journal of Medical Sciences*, March, 1922. (Pathological Report by Dr. Rustin McIntosh.)

"Remarks on Dr. Francis H. Williams' paper on the treating of tonsils by Radium," by Dr. George W. Gay. *Boston Medical and Surgical Journal*, September 14, 1922, page 414.

"Brief Analysis of Five Hundred Cases Referred to the Boston City Hospital Out-Patient Heart Clinic," by Drs. Burton E. Hamilton, and Joseph E. Hallisey. *Boston Medical and Surgical Journal*, Vol. 187, No. 4, pages 139-141.

"Perforated Gastro-duodenal Ulcers. Some notes as to their treatment," by Dr. James J. Hepburn. *Boston Medical and Surgical Journal*, February 9, 1922.

"Deaths following Sudden Changes of Diet: Diabetics of Five Years' duration in a Ten Year Old Boy," by Dr. Elliott P. Joslin. *Medical Clinics of North America*, 1922, Vol. 5, page 1205.

"Decreasing Diabetic Mortality: Increasing Incidence of Glycosuria," by Dr. Elliott P. Joslin. *Boston Medical and Surgical Journal*, June 8, 1922. Vol. 186, page 761.

"The Shattuck Lecture of the Massachusetts Medical Society. The Treatment of Diabetes Mellitus," by Dr. Elliott P. Joslin. *Boston Medical and Surgical Journal*, June 22, 1922, Vol. 186, page 833.

"To-day's Problem in Diabetes in Light of Nine Hundred and Thirty Fatal Cases," by Dr. Elliott P. Joslin. *Journal American Medical Association*, Vol. 78, page 1506, May 20, 1922.

"The Treatment of Diabetes by the General Practitioner," by Dr. Elliott P. Joslin. *Pennsylvania Medical Journal*, March, 1922, Vol. XXV, page 373.

"A Discussion of the Newer Methods in the Treatment of

Diabetes," by Dr. Elliott P. Joslin. *Journal of the Southern Medical Association*, Vol. XV., page 93, February, 1922.

"Diabetes," by Dr. Elliott P. Joslin. *Maine Medical Association Journal*, Vol. 13, page 43, September, 1922.

"A Review of a Year's Thyroid Work," by Dr. Frank H. Lahey. *Boston Medical and Surgical Journal*, April 27, 1922.

"Relations of Surgeon and Anæsthetist," by Dr. Frank H. Lahey. *American Journal of Surgery*, June, 1922.

"Parathyroid Deficiency and Its Treatment," by Dr. Frank H. Lahey. *Boston Medical and Surgical Journal*, August 3, 1922.

"Multiple Stage Measures in Surgery of Severe Hyperthyroidism," by Dr. Frank H. Lahey. *Boston Medical and Surgical Journal*, April 27, 1922.

"Differentiation of Hyperthyroidism and of Heart Disease from Neurasthenic States," by Dr. Frank H. Lahey and Dr. Burton E. Hamilton. *Journal American Medical Association*. June 10, 1922.

"The Present Status of the Histologic Technic Used in Pathology," by Dr. F. B. Mallory. *Bulletin of the International Association of Medical Museums*, Vol. VIII, 1922, pages 105-110.

"The Essentials of Photomicography," by Dr. F. B. Mallory and Miss Lillian M. Leavitt. *Bulletin of the International Association of Medical Museums*, Vol. VIII, 1922, pages 101-104.

"Some Facts Concerning Digitalis" by Dr. Thomas J. O'Brien. *Boston Medical and Surgical Journal*, July 27, 1922.

"Roentgen Ray and Tuberculosis in infants and Children," by Dr. Frederick W. O'Brien, A. B., and Dr. Forrest B. Ames, A. B., *Boston Medical and Surgical Journal*, Vol. 187, No. 8, August 24, 1922, pages 279-284.

"A chart for the "Rapid Estimation of Woodyatt's Optimal Diabetic Diet," by Dr. Dwight O'Hara. *Journal American Medical Association*, Vol. 78, page 1124, April 15, 1922.

"Lessons to be Learned from Repeated Glucose Tolerance Tests," by Dr. W. Richard Ohler. *Medical Clinics of North America*, March 15, 1922.

"Pituitary Gland Therapy," by Dr. W. Richard Ohler. *Boston Medical and Surgical Journal*, August 3, 1922.

"A Reconsideration of the Dyspepsias," by Dr. Francis W. Palfrey, *Boston Medical and Surgical Journal*, Vol. 186, No. 6, February 12, 1922.

"Factors in Dyspepsia," by Dr. Francis W. Palfrey. *Boston Medical and Surgical Journal*, Vol. 187, No. 15, October 12, 1922.

"The Work of the League of Red Cross Societies' Typhus Research Commission to Poland," by Dr. Francis W. Palfrey. *American Journal of Public Health*, Vol. 12, page 87, February 19, 1922.

"The Etiology and Pathology of Typhus," by Drs. Francis W. Palfrey, S. B. Wolbach and John L. Todd. *Harvard University Press*, 1922.

"A Group of Virulent Poison-Producing Diphtheroids, Isolated Especially from Postscarlatinal and Other Cases of Otitis Media," by Dr. Frederic Parker, Jr. *Journal of Medical Research*, 1922, Vol. XLIII, pages 387-397.

"Clinical Studies on the Respiration, VIII. The Relation of Dyspnea to the Maximum Minute-Volumne of Pulmonary Ventilation," by Drs. Francis W. Peabody, Cyrus C. Sturgis, Francis C. Hall and Frank Fremont-Smith. *The Archives of International Medicine*, 1922, Vol. XXIX, page 236.

"Clinical Studies on the Respiration, IX. The Effect of Exercise on the Metabolism, Heart Rate and Pulmonary Ventilation of Normal Subjects and Patients with Heart Disease," by Drs. Francis W. Peabody, Cyrus C. Sturgis, with the assistance of Bertha I. Barker and Margaret N. Read. *The Archives International Medicine*, 1922, XXXIX, page 277.

"The Physician and the Laboratory," by Dr. Francis W. Peabody. *Boston Medical and Surgical Journal*, 1922, CLXXXVII, page 324.

"The Effect of Pulmonary Congestion on the Ventilation of the Lungs," by Drs. Francis W. Peabody, Cecil K. Drinker and Hermann L. Blumgart. *Journal Experimental Medicine*, 1922, XXXV, page 37.

"The Department of Medicine at Peking Union Medical College," by Dr. Francis W. Peabody. *Science*, 1922, LVI, page 317.

"Heart Disease in Industry," by Dr. Cadis Phipps. *Journal of the American Medical Association*, February 25, 1922, Vol. 78, pages 562-564.

"Border Line Cases of Heart Disease in Industry," by Dr. Cadis Phipps. *The Nation's Health*, Vol. IV. No. 7, pages 434-435, July 15, 1922.

"Cardiovascular Syphilis," by Dr. William D. Reid. *Medical Clinics of North America*, May, 1922.

"The Social History in Relation to Heart Patients," by Dr. William D. Reid. *Boston Medical and Surgical Journal*, 187, 1: 13, July 6, 1922.

"Respiratory Paralysis following Quinidine Therapy," by Dr. William D. Reid. *Journal of American Medical Association*, 79, 1922, December 9, 1922.

"Fractured Clavicles," by Dr. T. K. Richards. *Journal of American Medical Association*, November 25, 1922 and also *Journal of American Medical Association Edicionen Espanol*, December 1, 1922.

"Treatment of Fractures Involving Lower End of Radius With Anterior and Posterior Wooden Splints," by Dr. T. K. Richards. *Boston Medical and Surgical Journal*, July 20, 1922.

"Report of Case of Ovarian Pregnancy," by Dr. F. L. Good and Dr. T. K. Richards. *Surgery, Gynecology and Obstetrics*, February 19, 1923.

"Angina Pectoris with and without Cardiac Signs," by Dr. William H. Robey. *Medical Clinics of North America*, March, 1922. and also *Boston Medical and Surgical Journal*, July 1922.

"The Causes of Heart Failure," by Dr. William H. Robey. *Harvard Health Talks*, Harvard University Press, 1922.

"Typhus Fever at the Boston City Hospital," by Dr. George C. Shattuck. *Boston Medical and Surgical Journal*, Vol. 186, No. 8, page 235, February 23, 1922.

"Typhus Fever in Boston and a Review of the Newer Methods of Diagnosing Typhus," by Dr. George C. Shattuck. *American Journal of Tropical Medicine*, Vol. II, No. 3, page 225, May, 1922.

"A Preliminary Survey of Tropical Diseases in Massachusetts," by Dr. George C. Shattuck. *American Journal of Tropical Medicine*. Vol. II, No. 6, page 497, November, 1922.

"The Operative Correction of Long Standing Erb's Palsy," by Dr. James W. Sever. *American Journal of Surgery*, September, 1921.

"Two Unusual Cases of Injury to the Tibial Tubercle," by Dr. James W. Sever. *Boston Medical and Surgical Journal*, Vol. 186, No. 10, pages 311-313, March 9, 1922.

"Traumatic Back Injuries and their Treatment," by Dr. James W. Sever. *New York State Journal of Medicine*, October, 1922.

"Fractures of the Tibial Spine Combined with Fractures of the Tuberosities of the Tibia," by Dr. James W. Sever. *Surgery, Gynecology and Obstetrics*, pages 558-564, November, 1922.

"Congenital Anatomical Defects of the Spine and Ribs," by Dr. James W. Sever. *Boston Medical and Surgical Journal*, Vol. 186, No. 24, pages 799-821, June 15, 1922.

"Treatment of Dehydration in Infants," by Dr. Oscar M. Schloss. *Boston Medical and Surgical Journal*, 187; 427-429, September 21, 1922.

"Allergy to Cow's Milk in Infants with Severe Malnutrition," by Dr. Oscar M. Schloss. *Society for Experimental Biology and Medicine*, 1922, XX, pages 5-9.

Chapter on "Malingering and the Feigned Diseases," by Dr. John J. Thomas. *Peterson Hayes Text Book of Legal Medicine and Toxicology*, Revised Edition.

"Jejunostomy," by Dr. Irving J. Walker. *Boston Medical and Surgical Journal*, January 26, 1922.

"Post-operative Obstruction of the Small Intestine," by Dr. Irving J. Walker. *Surgical Clinics of North America*, August, 1922.

"The Treatment of Tonsils by Radiations from Radium Salts Instead of Operation: 101 Cases," by Dr. Francis H. Williams. *Transactions of the Association of American Physicians*, 1922, and the *Boston Medical and Surgical Journal*, Vol. 187, No. 11, pages 412-416, September 14, 1922.

"Normal Variations in Type of the Female Pelvis and their Obstetrical Significance," by Dr. John T. Williams. *American Journal of Obstetrics and Gynecology*, April, 1922. Vol. III, No. 4.

"The Care of Pregnancy and Labor in Patients Previously Delivered by Cæsarean Section," by Dr. John T. Williams. *Boston Medical and Surgical Journal*, Vol. 186, pages 592-602.

"The Clinical Importance of the Chronic Changes in the Appendix Which Are Discovered by X-Ray," by Dr. Franklin W. White. *Transactions of the American Gastro-Enterological Association*. (To be published in the *Boston Medical and Surgical Journal*, 1923.)

"The Simultaneous Variation in Acidity of Different Portions of Gastric Contents and its Relation to Fractional Analysis," by Dr. Franklin W. White. *Transactions of the Association of American Physicians and American Medical Association*, October 28, 1922.

SCIENTIFIC ARTICLES READ AND ADDRESSES DELIVERED
BY MEMBERS OF THE MEDICAL AND SURGICAL STAFF.

Following is a list of the scientific articles read and addresses delivered by members of the hospital staff during the year:

"Result of Treatment of Surgical Diabetics at the Boston City Hospital from 1916 to 1921," read by Dr. Horace Binney for Surgical Section of the Suffolk District Medical Society, December 27, 1922.

"Indications for Surgery in Thyroid Disease," read by Dr. Howard M. Clute before the Malden Medical Society, May 13, 1922.

"Surgery of the Thyroid Gland," read by Dr. Howard M. Clute before the Quincy Medical Society, April 28, 1922.

"Experiments with Atmospheric Pressure in the Maxillary Sinus," read by Dr. Rockwell A. Coffin before the American Laryngological Association, Washington, D. C., May, 1922. (To be published soon in their Transactions).

"Acute Puerperal Inversion with the Report of a Case," read by Dr. Joseph P. Cohen before the Boston Obstetrical Society, October 25, 1921.

"The Uses of Radium on Eye, Ear, Nose and Throat Conditions," read by Dr. Joseph J. Corbett before the Medford Medical Society, October 24, 1922.

"Types of Encephalitis," read by Dr. Arthur W. Fairbanks before the Boston Society of Psychiatry and Neurology in March, 1922.

"The Relation of the Ear, Nose and Throat to General Disease," read before the Maimomides Medical Society by Dr. Louis M. Freedman. (To be published soon.)

"Syphilis of the Bones," read by Dr. Walter T. Garfield before the Congress of American Surgeons, October 27, 1922.

"Remarks on Dr. Francis H. Williams' paper on the treating of Tonsils by Radium," read by Dr. George W. Gay at the annual meeting of the Massachusetts Medical Society, June 13, 1922.

"The Early History of Medical Journalism in New England," read by Dr. Robert M. Green before the Boston Medical History Club, December 18, 1922.

"Pathological Hemorrhage," read by Dr. Joseph E. Hallisey before Waltham Training School for Nurses.

"Obesity: The Importance of its Prompt Recognition and Persistent Treatment," read by Dr. Albert A. Hornor before the New Bedford Medical Club, November 13, 1922.

"Will and Weight," read by Dr. Albert A. Hornor before the Twentieth Century Catholic Club of Brockton, Massachusetts, November 21, 1922.

"Today's Problem in Diabetes in Light of Nine Hundred and Thirty Fatal Cases," read by Dr. Elliott P. Joslin before the Academy of Medicine in New York.

"The Treatment of Diabetes by the General Practitioner," read by Dr. Elliott P. Joslin before the Medical Section of the Pennsylvania Medical Society in Philadelphia.

"A Discussion of the Newer Methods in the Treatment of Diabetes," read by Dr. Elliott P. Joslin before the Southern Medical Association, Arkansas, Hot Springs.

"Diabetes," read by Dr. Elliott P. Joslin before the Maine Medical Association.

"Diabetes and Life Insurance," read by Dr. Elliott P. Joslin before the Association of Life Insurance Medical Directors in New York City.

"The Urinary Nitrogen Excretions in Diabetes," read by Dr. Elliott P. Joslin before the Association of American Physicians in Washington, D. C. (to be published in Vol. XXXVII. of their Transactions).

"Transfusion in Purpura Hemorrhagica," read by Dr. Ralph C. Larabee before the American Surgical Association.

"Some Facts Concerning Digitalis," read by Dr. Thomas J. O'Brien before Staff Clinical Meeting, Boston City Hospital, April 14, 1922.

"Digitalis Compared with Other Heart Stimulants," read by Dr. Thomas J. O'Brien before the Carney Hospital Alumni Association, April 26, 1922.

"Modern Medicine," an address by Dr. Thomas J. O'Brien at the Graduation Exercises at Long Island Hospital Training School for Nurses, June 10, 1922.

"Renal Function Tests," read by Dr. W. Richard Ohler before the Somerville Medical Society, March, 1922.

"Pituitary Gland Therapy," read by Dr. W. Richard Ohler before the Suffolk County Medical Society, May 11, 1922.

"Renal Function Tests," read by Dr. W. Richard Ohler before the New Bedford Medical Society, November 27, 1922.

"Clinical Application of Certain Laboratory Procedures," read by Dr. W. Richard Ohler at the Goddard Hospital, Brockton, August 3, 1922.

"The Mechanism of Neurotic Belching," read by Dr. Francis W. Palfrey before the Cosmopolitan Medical Club, December 16, 1922.

"So called Gas in the Stomach," read by Dr. Francis W. Palfrey before the Somerville Medical Society, January 11, 1923.

"Medicine in China," an address given by Dr. Francis W. Peabody before the American Academy of Arts and Sciences on May 3, 1922.

"The Physician and the Laboratory," an address given by Dr. Francis W. Peabody before the Massachusetts Medical Society, June 13, 1922.

A Series of Clinics, by Dr. Francis W. Peabody before the Medical Association of Hamilton, Ontario, October 25, 1922.

"Clinical Significance of the Vital Capacity of the Lungs," an address given by Dr. Francis W. Peabody before the Buffalo Academy of Medicine, October 27, 1922.

"Clinical Significance of the Vital Capacity of the Lungs," an address given by Dr. Francis W. Peabody before the Hartford Medical Society, November 20, 1922.

"The Patient and the Man," an address given by Dr. Francis W. Peabody before the New York Academy of Medicine, November 21, 1922.

"The Treatment of Pneumonia," read by Dr. Cadis Phipps before the Charlestown Medical Society, March 20, 1922.

"The Production of Heart Murmurs," read by Dr. William D. Reid before the Harvard Medical Research Society, February 28, 1922.

"Lantern Slide Demonstration of some Points on Heart Disease," given by Dr. William D. Reid before the Boston City Hospital Clinical Meeting, April 14, 1922.

"The Diagnosis of Cardiovascular Syphilis," read by Dr. William D. Reid before the Boston Association of Cardiac Clinics, November 16, 1922.

"Syphilis of the Heart and Aorta," read by Dr. William D. Reid, before the Chelsea Naval Hospital, December 13, 1922.

"Angina Pectoris," an address made by Dr. William H. Robey before the Grafton County Medical Society, The Weirs, New Hampshire, July, 1922.

"Medical Teaching and Practice," an address made by Dr. William H. Robey before the Hampton, Hampshire, Franklin and Berkshire District Societies, Springfield, October 19, 1922.

"Cardiac Functional Tests for the Life Insurance Examiner," an address made by Dr. William H. Robey before the Clinical Club, Boston, December 15, 1922.

"Treatment of Heart Disease," an address given by Dr. William H. Robey before the Waltham Medical Club, January 4, 1923.

"The Causes of Heart Failure," read by Dr. William H. Robey, before the Harvard Medical School, February 5, 1922.

"Protective Inoculation against Respiratory Infection," read by Dr. George P. Sanborn at the United States Naval Hospital, Chelsea, February 6, 1922.

"Asymptomatic Neurosyphilis," read by Dr. George P. Sanborn at the United States Naval Hospital, Chelsea, January 17, 1923.

"The Importance of Early Detection of Asymptomatic Neuro-syphilis," read by Dr. George P. Sanborn before the Quincy Medical Club, December 29, 1922.

"Traumatic Back Injuries and Their Treatment," read by Dr. James W. Sever before the Medical Society of New York, April 20, 1922.

"Tropical Diseases in Massachusetts," read by Dr. George C. Shattuck before the Springfield Academy of Medicine, April 11, 1922 and also before the Middlesex East District Society, April 12, 1922.

"Tropical Diseases at the Boston City Hospital," read by Dr. George C. Shattuck before the Cosmopolitan Medical Club, December 16, 1922.

"Ketosis in Children," read by Dr. Oscar M. Schloss before New York Academy of Medicine.

"Acidosis," read by Dr. Oscar M. Schloss before the New England Pediatric Society.

"Nitrous Oxide-oxygen Anesthesia in Goiter Surgery," read by Dr. Lincoln F. Sise before the Boston Society of Anesthetists, March 28, 1922.

"Modern Anesthetics and Anesthetic Methods," read by Dr. Lincoln F. Sise before the Malden Medical Society, April 8, 1922.

"Nitrous Oxide Oxygen Anesthesia in Dr. Lahey's Thyroid Clinic," read by Dr. Lincoln F. Sise before a Section of American College of Surgeons, October 26 and 27, 1922.

"The Fundus Oculi in Hypertension," read by Dr. Joseph J. Skirball before Greater Boston Medical Association, November 8, 1922.

"Malignancy and the Eye," read by Dr. Joseph J. Skirball before the Staff of the Boston Dispensary, November 10, 1922 and in a Public Lecture, Cancer Week.

"Neurological Problems arising in General Practice," read by Dr. John J. Thomas, before the Medical Club of Rutland, Vermont, February 20, 1922.

"A Discussion of the Methods and Purposes of Basal Metabolism," read by Dr. Louis J. Ullian before the Cambridge Medical Improvement Society, November 27, 1922.

"The Value of Biliary Medical Drainage for Diagnosis and Treatment of Diseases of the Gall Bladder and Bile Ducts," read by Dr. Franklin W. White before the Haverhill Medical Club, October, 1922.

"The Clinical Importance of the Chronic Changes in The Appendix Which are Discovered by X-Ray," read by Dr. Franklin W. White before the American Gastro-Enterological Association, in Washington, May 1, 1922.

"The Simultaneous Variation in Acidity of Different Portions of Gastric Contents and its Relation to Fractional Analysis," read by Dr. Franklin W. White before the Association of American Physicians May 2, 1922.

"The Treatment of Tonsils by Radiations from Radium Salts Instead of Operation; 101 cases," read by Dr. Francis H. Williams at the Congress of Physicians and Surgeons, Washington, D. C., May, 1922, and also before the Massachusetts Medical Society, June 13, 1922.

HOUSE OFFICERS.

The Herbert L. Burrell Ether Prize, given for administering anæsthetics in the most skillful and humane manner, was awarded to Howard A. Bouvè, M. D., Third Surgical Service, and Reuben B. Davidoff, M. D., Fourth Surgical Service.

CHANGES IN RULES.

The following changes have been made in the rules during the past year:

The staff of the Thorndike Memorial Laboratory has been partially organized with a director, two assistants and two resident assistant physicians.

A Pediatric Service was inaugurated, with Staff, consisting of a Visiting Pediatrician, two Second Assistant Visiting Physicians as Acting Heads of the Service, five other Second Assistant Visiting Physicians, a Resident Physician and four House Officers. Four Technicians have also been added to the service.

The Visiting Pediatrician was made a member of the Senior Staff.

On account of the possibility of transmission of acute contagious diseases by children under sixteen years of age, their visiting the children's wards, E, N and I, was prohibited.

An additional position of Visiting Physician was created.

The Gynæcological and Obstetrical Service, which in 1919 was merged with the general Surgical Services, was again made a separate department.

As a temporary measure, a rule was made allowing the Out-Patient Gynæcological Staff members to take care of emergency cases in the house.

A fourth-house-officership was established for the Ophthalmic and Aural Service.

The position of Resident Physician for Tropical Diseases, also that of house officer in the same service, were created.

It was voted to withhold from the new rules (now being codified) the grade of Senior Physician and Senior Surgeon.

The positions of surgical dressers and clinical clerks were abolished, with the exception of two night dressers, one on the Obstetrical Service and one on the accident floor.

GIFTS AND BEQUESTS.

Extracts from the will of Fitz William Winter were received through the Boston Safe Deposit and Trust Company. This will provides, that, after the demise of the remaining legatee, and the accumulation of the estate to a certain fixed amount, the legacy of \$25,000 be paid over to the Boston City Hospital; the same to be held in trust, the income only to be expended for that which, in the opinion of the Hospital Trustees, will best serve the purposes of the institution.

Two graphophones with fifty records were presented by the Raymond Syndicate, for the use of the hospital nurses.

The trustees are grateful for the continued support and interest of his Honor the Mayor and of the City Council. They feel that the hospital is making distinct advances, a condition which is a source of great satisfaction to the Board of Trustees and to everybody concerned.

In conclusion, they take this opportunity of showing their appreciation to the professional staff who have continued to give their time and services freely to the care of the sick poor.

They also wish to thank the Superintendent and all others for their devoted care and attention to hospital problems.

Respectfully submitted,

JOSEPH P. MANNING, *President.*

THOMAS A. FORSYTH, *Secretary.*

HENRY S. ROWEN, M. D.

GEORGE G. SEARS, M. D.

CARL DREYFUS.

REPORT OF THE SUPERINTENDENT AND MEDICAL DIRECTOR.

BOSTON CITY HOSPITAL, February 1, 1923.

To the Trustees:

GENTLEMEN,— I present herewith the annual report of the Hospital Department for the year ending January 31, 1923.

On June 1, 1864, the Boston City Hospital was opened for the admission of patients. Since that time the number of house patients treated in the different departments has been 560,843 and the number of out-patients 2,092,971. The table on page 66 shows the number of patients who have been treated in the hospital proper and the South Department during the last ten years. The principal statistics for the year are shown on pages 67 and 68. The other tables are self-explanatory.

Patients admitted to the hospital according to services:

Medical services.	6,025
Special, pneumonia service	303
Surgical services.	10,069
Pediatric service	516
Ophthalmic service	173
Aural and laryngological service	2,294
Neurological service	449
Dermatological service	123
Total	<u>19,952</u>

Number of visits of patients to the hospital for advice and treatment in the Out-Patient Departments:

Medical diseases	17,739
Surgical diseases	72,433
Carried forward	<u>90,172</u>

<i>Brought forward</i>	90,172
Diseases of the eye	9,751
Diseases of the ear and throat	10,788
Diseases of the skin	11,944
Diseases of women and obstetrical service	4,152
Diseases of the nervous system	2,148
X-Ray diagnosis and treatment	10,319
Physical therapeutics treatment	33,925
Vaccine and serum inoculation:	
Visits of out-patients	8,858
Visits of nurses and others receiving protective inoculation	1,407
	<hr/> 10,265
Diabetic, nephritic and thyroid cases	3,450
Dental service	167
Cardiac cases	884
Nutrition cases	128
Gastro-intestinal cases	315
Pediatric cases	1,100
Blood cases	133
Surgical out-patients treated in Accident Room	1,547
	<hr/>
Total	191,188
Less visits counted more than once:	
In X-Ray Department	9,298
In Department of Physical Therapeutics	1,371
In Department of Immunology	8,858
In Diabetic, Nephritic and Thyroid Service	3,450
In Dental Department	167
In Cardiac Clinic	450
In Gastro-intestinal Clinic	315
In Pediatric Clinic	16
In Blood Service	133
	<hr/> 24,058
Total visits	<hr/> <u>167,130</u>

TABLE OF ADMISSIONS AND DEATHS FROM FEBRUARY 1, 1913, TO JANUARY 31, 1923.
Hospital Proper and South Department.

	Patients Admitted.	Patients Accidentally Injured Admitted.	Number of Out- Patients Treated.	Number of Patients in Hospital at Beginning of Year.	Number of Ward Patients Treated.	Died.	Rate of Mortality
February 1, 1913, to January 31, 1914.....	15,237	1,362	47,385	933	16,170	1,696	.105
February 1, 1914, to January 31, 1915.....	16,498	1,410	43,891	893	17,391	1,671	.096
February 1, 1915, to January 31, 1916.....	18,456	1,508	39,351	949	19,405	1,760	.091
February 1, 1916, to January 31, 1917.....	19,800	1,328	35,867	935	20,735	1,885	.091
February 1, 1917, to January 31, 1918.....	20,753	2,262	34,297	859	21,612	1,948	.090
February 1, 1918, to January 31, 1919.....	19,982	1,799	29,488	929	20,911	2,434	.116
February 1, 1919, to January 31, 1920.....	17,593	1,577	31,103	861	18,454	1,382	.075
February 1, 1920, to January 31, 1921.....	16,406	1,215	28,896	902	17,308	1,359	.079
February 1, 1921, to January 31, 1922.....	18,844	1,915	32,377	979	19,823	1,400	.071
February 1, 1922, to January 31, 1923.....	22,174	2,801	37,419	993	23,167	1,796	.078

The total number of patients admitted to the wards since the opening of the hospital and South Department has been 519,058 and the number of out-patients has been 1,272,080.

HOSPITAL PROPER.

APPLICANTS EXAMINED FOR ADMISSION DURING THE YEAR.

YEAR.	Month.	Number Examined.	Number Admitted.	Number not Admitted.
1922.	February.....	1,584	1,534	50
	March.....	1,726	1,667	59
	April.....	1,713	1,671	42
	May.....	1,746	1,710	36
	June.....	1,722	1,698	24
	July.....	1,739	1,717	22
	August.....	1,642	1,626	16
	September.....	1,581	1,553	28
	October.....	1,714	1,684	30
	November.....	1,606	1,570	36
	December.....	1,723	1,691	32
1923.	January.....	1,853	1,831	22
	Totals.....	20,349	19,952	397

PRINCIPAL STATISTICS, 1922-23.

Number of Patients.

Number of patients remaining in the hospital proper
 January 31, 1922 755

Admitted from February 1, 1922, to January
 31, 1923, inclusive:

Medical	6,025	
Special, pneumonia	303	
Surgical	10,069	
Pediatric	516	
Ophthalmic	173	
Aural and laryngological	2,294	
	<hr/>	<hr/>
Carried forward	19,380	755

<i>Brought forward</i>	19,380	755
Neurological	449	
Dermatological	123	
	<hr/>	19,952
Treated during the year		20,707
Discharged during the year	18,260	
Died during the year	1,600	
	<hr/>	19,860
Number of patients remaining in the hospital proper		
January 31, 1923		847
Number of births during the year		642
Number of deaths		1,600
Number of deaths within forty-eight hours of admission		539
Largest number of patients in the hospital on any one day		877
Smallest number of patients in the hospital on any one day		604
Daily average number of patients		748.5
Average number of days' stay of patients		13.2
Number of weeks' treatment given in hospital		39,031
Number of days' treatment given in hospital		273,215
Number of applicants for admission to hospital		20,349
Number of applicants rejected		397
Number of visits made by out-patients		167,130
Patients carried in ambulances		6,328
Number of patients accidentally injured, admitted to the wards		2,601

Number of out-patients treated in the Out-Patient Departments, classified according to diseases:

For medical diseases	6,333
For surgical diseases	14,232
For diseases of the eye	2,965
For diseases of the ear and throat	4,775
For diseases of the skin	2,255
For diseases of women and obstetrical service	1,486
For diseases of the nervous system	790
For physical therapeutics	1,875
<i>Carried forward</i>	<hr/> 34,711

<i>Brought forward</i>	34,711
For X-ray diagnosis and treatment	9,656
For vaccine and serum inoculation:	
Out-patients treated	620
Nurses and others receiving protective in- oculation	376
	<hr/> 996
Diabetic, nephritic and thyroid cases	230
Dental cases	131
Cardiac cases	633
Nutrition cases	19
Gastro-intestinal cases	165
Pediatric cases	797
Blood cases	133
Surgical out-patients treated in Accident Room	1,547
	<hr/>
Total	49,018

Less patients counted more than once:

In X-Ray Department	7,895
In Department of Physical Therapeutics	1,770
In Department of Immunology	620
In Diabetic, Nephritic and Thyroid Clinics	230
In Dental Department	131
In Cardiac Clinic	633
In Nutrition Clinic	19
In Gastro-intestinal Clinic	165
In Pediatric Clinic	3
In Blood Service	133
	<hr/>
	11,599
	<hr/>
Total number of out-patients treated	<u>37,419</u>

PRESENT CAPACITY OF THE HOSPITAL DEPARTMENT.

The schedule of beds is as follows:

Hospital proper	777
South Department	338
Haymarket Square Relief Station	27
East Boston Relief Station	11
Convalescent Home	34
	<hr/>
	<u>1,187</u>

The distribution of beds in the Main Department is as follows:

SERVICES.	WARD.					PRIVATE.				Grand Totals.
	Males.	Females.	Children.	Both Sexes.	Totals.	Males.	Females.	Both Sexes.	Totals.	
Surgical:										
Gynæcological and obstetrical.....	.....	65	27	.....	92	....	2	....	2	94
Other surgical.....	139	69	....	.....	208	9	4	....	13	221
Medical and neurological.....	130	79	.....	.....	209	6	2	....	8	217
Ophthalmic, aural and laryngo- logical.....	.....	.....	.....	27	27	.....	.....	.....	.....	27
Pediatric.....	24	21	.....	54	99	.....	.....	.....	.....	99
All services.....	44	38	....	37	119	.....	.....	.....	.....	119
Totals.....	337	272	27	118	754	15	8	....	23	777

STATISTICS OF PATIENTS ACCORDING TO SERVICES.

February 1, 1922, to January 31, 1923, Inclusive.

SERVICES.	In Hospital February 1, 1922.	Admitted.	Discharged.	Died.	Total Discharged and Died.	In Hospital February 1, 1923.
First Surgical.....	64	1,956	1,864	102	1,966	54
Second Surgical.....	61	1,526	1,435	87	1,522	65
Third Surgical.....	56	1,868	1,752	102	1,854	70
Fourth Surgical.....	68	1,608	1,521	80	1,601	75
Fifth Surgical.....	130	3,111	2,935	172	3,107	134
First Medical.....	80	1,557	1,315	239	1,554	83
Second Medical.....	68	1,581	1,411	177	1,588	61
Third Medical.....	57	1,588	1,359	200	1,559	86
Fourth Medical.....	72	1,299	1,114	167	1,281	90
Special — Pneumonia.....	54	303	288	69	357	0
Pediatric.....	.....	516	348	103	451	65
Ophthalmic.....	6	173	175	1	176	3
Aural and Laryngological.....	14	2,294	2,267	17	2,284	24
Neurological.....	19	449	362	78	440	28
Dermatological.....	6	123	114	6	120	9
Totals.....	755	19,952	18,260	1,600	19,860	847

RECEIPTS AND EXPENDITURES.

Receipts.

City appropriation	\$1,240,445 28
Interest on trust funds	2,424 00
Transfer from Soldiers' Relief	35,882 36
Refund from Murphy Iron Works	1,315 93
	<u>\$1,280,067 57</u>

Expenditures.

Hospital proper and its subdivisions	\$849,561 80
Out-Patient Department	100,383 34
South Department	226,239 43
Haymarket Square Relief Station	63,162 09
East Boston Relief Station	28,338 63
Convalescent Home	12,382 28
	<u>\$1,280,067 57</u>

APPLICANTS NOT ADMITTED DURING THE YEAR.

February 1, 1922, to January 31, 1923, Inclusive.

	At First Rejected.	Admitted Later.	Finally Rejected.
<i>Cause of Rejection.</i>			
Self-rejected or deferred.....	658	.....	182
Self-rejected or deferred, but admitted within three days.....		315	.....
Self-rejected or deferred, but admitted later.....		161	.....
State settlement.....	198	.....	88
State settlement but admitted within three days.....		72	.....
State settlement but admitted later.....		38	.....
For want of accommodation.....	175	.....	66
For want of accommodation but admitted within three days.....		85	.....
For want of accommodation but admitted later.....		24	.....
Nonresident.....	79	.....	45
Nonresident but admitted within three days.....		26	.....
Nonresident but admitted later.....		8	.....
For lack of sufficient information.....	14	8	6
Referred to other public institutions.....	17	7	10
Totals.....	1,141	744	397

RECORD OF AMBULANCE WORK.

*February 1, 1922, to January 31, 1923, Inclusive.**Transportation to the Hospital.**Trips to:*

Business center	800
North End	152
West End	225
South End	838
Back Bay	145
Roxbury	1,015
West Roxbury	40
Dorchester	559
South Boston	458
East Boston	562
Charlestown	414
Jamaica Plain	137
Brighton	128
Roslindale	60
Hyde Park	57
South Department	31
Total trips in	<u>5,621</u>
Did not come	41
Patients brought	<u><u>5,580</u></u>

Transportation from the Hospital.

Convalescent Home	238
Patients' homes	103
Other hospitals	345
Trips out	<u>686</u>
Carried extra	62
Patients carried	<u><u>748</u></u>

Summaries.

Total number of trips	6,307
Total patients transferred	<u><u>6,328</u></u>

*Record of Sedan Trips for Physicians and Surgeons,
In bringing:*

The physician and the surgeon	<u><u>624</u></u>
---	-------------------

CENSUS OF DAYS' BOARD OF ALL PERSONS.
February 1, 1922, to January 31, 1923, Inclusive.

	Patients.	Officers and Employees.	Total Days' Board.
Hospital Proper.....	273,215	189,269	462,484
South Department.....	68,544	49,909	118,453
Haymarket Square Relief Station.....	3,639	11,962	15,601
East Boston Relief Station.....	660	6,782	7,442
Convalescent Home.....	5,170	2,696	7,866
Totals.....	351,228	260,618	611,846

DAILY AVERAGE OF PERSONS.

	Patients.	Officers and Employees.	All Persons.
Hospital Proper.....	748.5	518.5	1,267.0
South Department.....	187.8	136.7	324.5
Haymarket Square Relief Station.....	10.0	32.8	42.8
East Boston Relief Station.....	1.8	18.6	20.4
Convalescent Home.....	14.2	7.4	21.6
Totals.....	962.3	714.0	1,676.3

MAXIMUM AND MINIMUM NUMBER OF DAYS' BOARD
 GIVEN.

	Hospital Proper.	South Department.	Haymarket Square Relief Station.	East Boston Relief Station.	Convalescent Home.	All Departments.
Maximum number of days' board of patients.....	877	283	26	7	22	.....
Minimum number of days' board of patients.....	604	100	2	0	6	.....
Maximum number of days' board of persons.....	1,425	435	58	26	30	1,911
Minimum number of days' board of persons.....	1,037	219	31	17	12	1,363

HOSPITAL PROPER.

NATIVITY OF PATIENTS ADMITTED DURING THE YEAR.

Boston	7,143	<i>Brought forward,</i>	17,084
Other cities and towns in Massachusetts	2,248	Spain	15
Maine	363	Belgium	13
New Hampshire	184	France	13
Vermont	97	Finland	11
Rhode Island	128	Roumania	11
Connecticut	86	Albania	8
Other states	945	Switzerland	7
Ireland	1,987	South America	7
British Provinces	1,173	India	6
Russia	745	Azores	5
Italy	653	Bermuda	4
England	323	Europe	4
Poland	151	Australia	4
Scotland	135	Africa	4
Sweden	114	Bohemia	3
Germany	113	Madeira	3
West Indies	76	Servia	3
Lithuania	60	Asia Minor	2
Austria	50	Panama	2
Greece	49	East Indies	2
China	44	Japan	2
Armenia	42	Galicia	1
Portugal	41	Sicily	1
Norway	33	Ukraine	1
Syria	30	Macedonia	1
Holland	19	Mexico	1
Cape Verde Islands	18	Central America	1
Turkey	18	At sea	1
Denmark	16	Unknown	2,732
		Total	<u>19,952</u>
<i>Carried forward.</i>	17,084		

CONDITION OF PATIENTS DISCHARGED DURING YEAR.

Well	1,373	<i>Brought forward,</i>	18,258
Relieved	15,014	Not treated	2
Not relieved	1,871	Died	1,600
<i>Carried forward,</i>	18,258	Total	<u>19,860</u>

SOUTH DEPARTMENT.

 PRINCIPAL STATISTICS FOR THE YEAR FEBRUARY 1,
1922, TO JANUARY 31, 1923.

Number of patients remaining in the South Department January 31, 1922	238
Admitted from February 1, 1922, to January 31, 1923,	2,222
	<hr/>
Treated during the year	2,460
Discharged during the year	2,014
Died during the year	196
	<hr/>
	2,210
	<hr/>
Number of patients remaining January 31, 1923	250
Maximum number of patients at any one time	283
Minimum number of patients at any one time	100
Daily average number of patients	187.8
Average number days' stay of patients	27.9
Number of days' treatment given patients	68,544
Number of weeks' treatment given patients	9,792
Number of patients admitted over fifteen years of age	430
Average age of patients	9.02
Number of patients dying within forty-eight hours of admission	74
Percentage of deaths to discharges	8.87
The death rate from all diseases	7.97
The death rate from all diseases, deducting deaths within twenty-four hours of admission	5.81
Number of applicants examined for admission	2,417
Number of applicants rejected	195
Number of patients carried in ambulances	1,777
Number of surgical operations	88

If a comparison is made between the South Department and the hospital proper as to the number of days' board given patients, it will be found that at the former it is 68,544, while at the latter it is 273,215.

NATIVITY OF PATIENTS ADMITTED TO THE SOUTH
DEPARTMENT DURING THE YEAR.

Boston	1,389	<i>Brought forward,</i>	2,019
Other cities and towns in Massa- chusetts	323	Greece	4
Maine	29	France	2
New Hampshire . .	21	Scotland	6
Vermont	8	Jamaica	3
Rhode Island . . .	12	Norway	3
Connecticut	9	Sweden	3
Other states	75	Armenia	1
British Provinces . .	83	Africa	1
Ireland	24	China	1
Italy	12	Denmark	1
England	9	Holland	1
Roumania	1	Cuba	1
Syria	1	Portugal	1
Poland	2	West Indies	1
Austria	2	Turkey	1
Russia	18	Mexico	1
Germany	1	Unknown	172
<hr/>		Total	<hr/>
<i>Carried forward,</i>	2,019		<u>2,222</u>

CONDITION OF PATIENTS DISCHARGED FROM THE SOUTH
DEPARTMENT DURING THE YEAR.

Well	1,796	<i>Brought forward,</i>	2,014
Relieved	140	Died	196
Not relieved	78	<hr/>	
<hr/>		Total	<hr/>
<i>Carried forward,</i>	2,014		<u>2,210</u>

SOUTH DEPARTMENT.

APPLICANTS EXAMINED FOR ADMISSION DURING THE YEAR.

YEAR.	Month.	Number Examined.	Number Admitted.	Number not Admitted.
1922.	February.....	248	219	29
	March.....	232	214	18
	April.....	191	171	20
	May.....	242	218	24
	June.....	167	155	12
	July.....	135	126	9
	August.....	159	156	3
	September.....	126	120	6
	October.....	176	162	14
	November.....	229	207	22
	December.....	237	220	17
1923.	January.....	275	254	21
	Totals.....	2,417	2,222	195

SOUTH DEPARTMENT.

APPLICANTS NOT ADMITTED DURING THE YEAR.

February 1, 1922, to January 31, 1923, Inclusive.

CAUSE OF REJECTION.	1922. February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	1923. January.	Totals.
Self-rejected.....	14	4	3	1	2	1	3	...	...	5	2	7	42
No infectious disease.....	9	5	6	8	6	5	...	5	10	9	7	13	83
Want of accommodation *.....	...	...	2	2	...	1	...	...	1	...	1	...	7
Nonresident.....	...	...	1	1	...	...	...	...	...	...	...	...	2
Parotitis †.....	...	...	...	1	1	...	...	1	...	3	1	...	7
Pertussis †.....	2	...	2	...	...	1	...	...	2	3	4	...	14
Measles †.....	3	8	4	8	1	1	...	...	...	...	...	...	25
Died before admission.....	1	...	...	...	...	...	...	...	...	1	...	...	2
Varicella.....	...	1	2	3	2	...	...	...	1	1	2	1	13
Totals.....	29	18	20	24	12	9	3	6	14	22	17	21	195

* Wards filled to capacity.

† No isolation rooms for these diseases.

RECORD OF AMBULANCE WORK IN BRINGING PATIENTS
TO SOUTH DEPARTMENT DURING THE YEAR.

Trips to:

Business center	5
North End	42
West End	152
Back Bay	41
South End	383
Roxbury	321
West Roxbury	7
Dorchester	246
South Boston	103
East Boston	182
Charlestown	111
Jamaica Plain	48
Brighton	60
Roslindale	10
Hyde Park	12
Suburban towns	1
<hr/>	
Total number of trips	1,724
Carried extra	108
Patients rejected	55
<hr/>	
Total patients carried	<u>1,777</u>

Table No. 1.
DISBURSEMENTS ACCORDING TO VARIOUS SUBDIVISIONS.

	Hospital.	Out-Patient Depart- ment.	Labora- tories.	X-Ray and Photo- graphic Depart- ment.	Depart- ment of Physical Thera- peutics.	Depart- ment of Social Work.	Settle- ment Account.	South Department.	Haymarket Square Relief Station.	East Boston Relief Station.	Conva- lescent Home.	Totals.
Subsistence supplies.....	\$171,843 25							\$39,685 34	\$8,672 60	\$2,446 25	\$3,319 33	\$225,966 77
Fuel.....	59,326 45	\$7,957 36	\$3,978 70	\$994 66				29,394 95	2,594 20	1,381 24	527 78	106,155 34
Medical supplies.....	69,789 22	2,428 33	4,343 84	19,307 40	\$1,665 02			3,615 35	3,348 14	1,421 08	54 85	106,003 23
Salaries and labor.....	370,146 36	32,742 78	41,537 41	12,118 49	7,796 36	\$9,977 88	\$670 00	114,522 44	39,284 72	18,772 00	6,554 91	654,123 35
Buildings, repairs.....	33,369 27	2,070 56	1,917 16	296 78	32 05			8,863 54	859 74	352 07	331 63	48,092 80
Grounds.....	1,894 64							663 93	43 51	10 00	105 54	2,717 62
Ice.....	5,374 54							883 20	517 87	377 77	471 48	7,624 86
Electric lighting, power and gas.....	6,214 60	83 14	318 76	365 80	111 39			1,369 32	1,665 41	648 04	426 76	11,203 22
Soap, cleansing stuffs, matches, etc.....	5,608 67	70 09	45 80	6 78				902 75	122 12	41 45	48 48	6,846 14
Furniture, furnishings, fixtures.....	21,416 96	302 14	629 05	197 30	26 94	41 77	11 00	2,314 02	478 61	145 45	243 23	25,806 47
Beds and bedding.....	9,023 07	106 35	124 21	22 20	10 84			4,683 77	849 98	240 31	78 69	15,139 42
Dry goods, uniforms and clothing.....	12,520 99	67 98	273 09	66 36	15 35			5,789 07	538 86	173 67	51 40	19,496 77
Stationery, printing, postage and advertising.....	7,943 66	1,578 91	314 81	733 32	116 56	434 49	636 97	833 83	881 42	177 74	8 46	13,660 17
Transportation, cartage and freight.....	872 78		23 13	10 44	23 60	521 50		128 41	320 40	149 00	39 50	2,088 76
Telephone and telegraph.....	2,106 36	315 31	31 53			287 23		2,570 72	504 42	177 15	60 99	6,053 71
Laundry, repairs, etc.....	9,347 96	430 01						1,855 66	645 36	322 51	4 01	12,605 51
Garage and ambulance.....	7,240 45							2,567 04	837 83	982 90	51 59	11,679 81
Animals and their maintenance.....			350 10									350 10
Training School for Nurses.....	1,130 52							65 02				1,195 54
Annual reports.....	294 51							78 29				372 80
Loose leaf records: expenses.....	2,164 12							75 25				2,239 37
Incidentals.....	487 00		155 16								3 65	645 81
Totals.....	\$798,115 38	\$48,152 96	\$54,042 75	\$34,119 53	\$9,798 11	\$11,262 87	\$1,317 97	\$220,891 90	\$62,165 19	\$27,818 63	\$12,382 28	\$1,280,067 57
Adjustment:												
(A) Laboratories (\$54,042.75).....	43,350 58	5,394 93						4,820 34	476 90			
(B) X-Ray and Photographic Department (\$34,119.53).....	18,765 74	15,353 79										
(C) Department of Physical Therapeutics (\$9,798.11).....	587 88	9,210 23										
(D) Department of Social Work (\$11,262.87).....	5,631 44	5,631 43										
(E) Settlement Account (\$1,317.97).....	790 78							40% 527 19				
Totals.....	\$867,241 80	\$83,743 34						\$226,239 43	\$62,642 09	\$27,818 63	\$12,382 28	\$1,280,067 57
Charged from hospital on account of board of employees:												
Out-Patient Department.....	\$16,640 00	+16,640 00										
Haymarket Square Relief Station.....	520 00								+520 00			
East Boston Relief Station.....	520 00	-17,680 00								+520 00		
Total operating expenses.....	\$849,561 80	\$100,383 34						\$226,239 43	\$63,162 09	\$28,338 63	\$12,382 28	\$1,280,067 57
Deduct for new construction.....	12,364 06	1,743 78						5,587 95	7 88			19,703 67
	\$837,197 74	\$98,639 56						\$220,651 48	\$63,154 21	\$28,338 63	\$12,382 28	\$1,260,363 90
Deduct increase in stock on hand more than February 1, 1922.....	9,868 00										59 00	9,927 00
Add decrease in stock on hand less than February 1, 1922.....								325 00	320 00	509 00		1,154 00
Amount properly chargeable to maintenance.....	\$827,329 74	\$98,639 56						\$220,976 48	\$63,474 21	\$28,847 63	\$12,323 28	\$1,251,590 90
Cost per day per ward patient.....	3 03							3 22	3 07	3 07	2 38	
Cost per visit per out patient.....		59							2 22	74		

* New construction charged to Laboratories, \$788.15, is deducted as follows: 80% from Hospital Proper, 10% from Out-Patient Department, 9% from South Department, and 1% from Haymarket Square Relief Station. New construction charged to X-Ray and Photographic Department, \$197.03, is deducted as follows: 55% from Hospital Proper, 45% from Out-Patient Department. The actual amounts deducted for new construction are as follows: from Hospital Proper, \$12,364.06, from Out-Patient Department, \$1,743.78, from South Department \$5,587.95, from Haymarket Square Relief Station, \$7.88; a total of \$19,703.67.



Table No. 2.

EXPENDITURES IN ACCORDANCE WITH THE UNIFORM

PARTICULARS.	MAIN HOSPITAL.		OUT-PATIENT DEPARTMENT.		HAYMARKET SQUARE RELIEF STATION.	
	Expenditures, Salaries and Expenses.	Totals.	Expenditures, Salaries and Expenses.	Totals.	Expenditures, Salaries and Expenses.	Totals.
Administration:						
Salaries.....	\$59,268 97		\$9,122 96		\$7,885 49	
Expenses.....	16,255 66		1,894 22		1,385 84	
		\$75,524 63		\$11,017 18		\$9,271 33
PROFESSIONAL CARE OF PATIENTS.						
Physicians:						
Salaries.....		3,659 26				385 00
Anæsthetist:						
Salaries.....		1,279 82				
Superintendent of Nurses and As-						
sistants:						
Salaries.....		8,684 97		700 00		1,167 43
Head Nurses:						
Salaries.....		31,419 02		3,995 00		1,757 50
Undergraduate Nurses:						
Salaries.....		17,549 51		854 50		549 98
Male Nurses:						
Salaries.....		21,225 38		3,856 00		932 00
Ward Employees:						
Salaries.....		56,978 63		442 00		3,384 93
Apothecaries and Assistants:						
Salaries.....		3,220 83		539 82		194 91
Medical and Surgical Supplies:						
Expenses.....		73,434 57		2,428 33		3,348 14
Pathological Laboratory:						
Salaries.....	\$19,668 22	98%		1%		1%
Expenses.....	6,985 48					
		26,653 70		271 98		271 98
X-Ray and Photographic De-						
partment:						
Salaries.....	\$6,665 17	55%		45%		
Expenses.....	12,100 57					
		18,765 74		15,353 79		454 28
Department of Physical Thera-						
peutics:						
Salaries.....	\$467 78	6%		94%		
Expenses.....	120 10					
		587 88		9,210 23		
Clinical laboratories and departments:						
Salaries.....	\$11,184 73	74%		25%		1%
Expenses.....	3,979 20					
		15,163 93		5,122 95		204 92
Thorndike Memorial Laboratory:						
Salaries.....		6,353 29				
Social Service:						
Salaries.....	\$4,988 94	50%		50%		
Expenses.....	642 50					
		5,631 44		5,631 43		
DEPARTMENT EXPENSES.						
Ambulance:						
Salaries.....	\$19,073 93				\$7,129 87	
Expenses.....	10,816 49				837 83	
		29,890 42				7,967 70
Carried forward.....		\$396,023 02		\$59,423 21		\$29,890 10

Table No. 2.

SYSTEM OF HOSPITAL ACCOUNTING.

EAST BOSTON RELIEF STATION.		CONVALESCENT HOME.		Total Expenditures.	Total Expenditures by Depart- ments.	Remarks.
Expenditures, Salaries and Expenses.	Totals.	Expenditures, Salaries and Expenses.	Totals.			
\$4,572 89		\$2,213 27				
354 89		69 45		\$103,023 64		
	\$4,927 78		\$2,282 72		\$103,023 64	Administration expenses.
	145 84			\$4,190 10		
				1,279 82		
	20 28			10,572 68		
	986 67		1,014 20	39,172 39		
	426 97			19,380 96		
	796 65			26,810 03		
	1,113 57			61,919 13		
	194 91		194 91	4,345 38		
	1,421 08		54 85	80,686 97	248,357 46	Professional care of patients.
				\$27,197 66	27,197 66	Pathological Laboratory.
				\$34,573 81	34,573 81	X-Ray and Photographic De- partment.
				\$9,798 11	9,798 11	Department of Physical Thera- peutics.
				\$20,491 80	20,491 80	Clinical laboratories and depart- ments.
				\$6,353 29	6,353 29	Thorndike Memorial Laboratory.
				\$11,262 87	11,262 87	Social Service.
\$316 99		\$475 48				
982 90		51 59				
	1,299 89		527 07	\$39,685 08		
.....	\$11,333 64	.....	\$4,073 75	\$502,743 72	\$461,058 64	

Table No. 2.—Concluded.

PARTICULARS.	MAIN HOSPITAL.		OUT-PATIENT DEPARTMENT.		(HAYMARKET SQUARE RELIEF STATION.	
	Expenditures, Salaries and Expenses.	Totals.	Expenditures, Salaries and Expenses.	Totals.	Expenditures, Salaries and Expenses.	Totals.
<i>Brought forward</i>		\$396,023 02		\$59,423 21		\$29,890 10
Training School:						
Salaries.....	\$7,934 24					
Expenses.....	260 08	8,194 32				
Housekeeping:						
Salaries.....	\$71,872 84		\$3,028 08		\$4,581 23	
Expenses.....	11,594 12	83,466 96	100 72	3,128 80	439 84	5,021 07
Equipment:						
Expenses.....		38,889 94		395 61		1,324 20
Steward's Department:						
Salaries.....	\$6,064 83			16 38	\$81 90	
Expenses.....	217,786 33	223,851 16			9,190 47	9,272 37
Kitchen and dining room:						
Salaries.....		39,681 41				1,244 99
Laundry:						
Salaries.....	\$51,146 91		\$1,675 99		\$3,723 95	
Expenses.....	15,239 62	66,386 53	430 01	2,106 00	645 36	4,369 31
Heat, light and power:						
Salaries.....	\$45,189 48		\$6,291 94		\$5,081 62	
Expenses.....	91,321 96	136,511 44	8,046 25	14,338 19	4,262 31	9,343 93
BUILDINGS AND GROUNDS.						
Buildings:						
Salaries.....	\$33,098 02		\$1,724 82		\$727 08	
Expenses.....	41,571 86	74,669 88	2,070 56	3,795 38	859 74	1,586 82
Grounds:						
Salaries.....	\$4,435 32		\$495 29		\$2 56	
Expenses.....	2,558 87	6,993 89		495 29	43 51	46 07
Miscellaneous expenses:						
Expenses.....		18,812 68		44 48		543 23
Totals.....		\$1,093,481 23		\$83,743 34		\$62,642 09
Deduct board of employees.....		17,680 00				
Add board of employees.....				16,640 00		520 00
Total operating expenses.....		\$1,075,801 23		\$100,383 34		\$63,162 09
Deduct for new construction.....		17,952 01		1,743 78		7 88
Net total operating expenses.....		\$1,057,849 22		\$98,639 56		\$63,154 21
Deduct difference in stock on hand more than February 1, 1922.....		9,543 00				
Add difference in stock on hand less than February 1, 1922.....						320 00
Amount properly chargeable to maintenance.....		\$1,048,306 22		\$98,639 56		\$63,474 21
Total patients' days' treatment.....	341,759				3,639	
Cost per day for ward patient.....		\$3 07				\$3 07
Total visits of out-patients.....			167,130		23,549	
Cost per visit per out-patient.....				\$0 59		\$2 22

Table No. 2.—Concluded.

EAST BOSTON RELIEF STATION.		CONVALESCENT HOME.		Total Expenditures.	Total Expenditures by Depart- ments.	Remarks.
Expenditures, Salaries and Expenses.	Totals.	Expenditures, Salaries and Expenses.	Totals.			
.....	\$11,333 64	.....	\$4,073 75	\$500,743 72	\$461,058 64	
.....		.....		8,194 32		
\$1,583 18 160 12		\$1,157 16 89 06				
	1,743 30		1,246 22	94,606 35		
.....	385 76	.....	321 05	41,316 56		
\$32 76 2,824 02		\$32 76 3,790 81				
	2,856 78		3,823 57	239,820 26		
.....	1,211 33	.....	594 75	42,732 48		
\$2,244 19 322 51		\$580 86 4 01				
	2,566 70		584 87	76,013 41		
\$4,986 93 2,029 28						
	7,016 21		956 23	168,166 00		
					710,534 46	Department expenses.
\$137 20 352 07		\$177 60 331 63				
	489 27		509 23	\$81,050 58		
\$1 64 10 00		\$113 92 105 54				
	11 64		219 46	7,766 35		
.....	204 00	.....	53 15	\$19,657 54	88,816 93	Buildings and grounds.
					19,657 54	Miscellaneous expenses.
.....	\$27,818 63	.....	\$12,382 28	\$1,280,067 57	\$1,280,067 57	
.....	520 00	.....			
.....	\$28,338 63	.....	\$12,382 28	\$1,280,067 57		
.....		.....		19,703 67		
.....		.....		\$1,260,363 90		
.....		.....	59 00	9,602 00		
.....		.....		\$1,250,761 90		
.....	509 00	.....		829 00		
.....	\$28,847 63	.....	\$12,323 28	\$1,251,590 90		
660		5,170				
36,259	\$3 07		\$2 38			
	\$0 74					

Table No. 3.

EXPENDITURES, CLASSIFIED, IN ACCORDANCE WITH SEGREGATED BUDGET FOR THE YEAR ENDING JANUARY 31, 1923.

GROUP AND ITEM.	ALL DEPARTMENTS.	
	1922-1923.	
A. PERSONAL SERVICE.....		\$650,567 92
Permanent employees.....	\$617,420 40	
Temporary employees.....	14,686 73	
Unassigned.....	18,460 79	
B. SERVICES OTHER THAN PERSONAL.....		61,714 76
Postage.....	\$1,088 58	
Advertising and posting.....	22 95	
Transportation of persons.....	1,490 10	
Cartage and freight.....	700 66	
Light and power.....	6,370 19	
Premium on surety bond.....	187 50	
Communication.....	6,056 71	
Motor vehicle repairs.....	3,126 84	
Motorless vehicle repairs.....	444 92	
Cleaning.....	3 16	
Removal of snow.....	2,335 56	
Expert and architect.....	609 17	
Fees, service of venires, etc.....	20 00	
Boiler inspection.....	60 00	
Photographic and blueprinting.....	10 00	
General plant repairs.....	39,188 42	
C. EQUIPMENT.....		81,215 64
Machinery.....	\$5,035 15	
Electrical.....	1,045 69	
Motor vehicles.....	5,070 92	
Motorless vehicles.....	907 65	
Furniture and fittings.....	26,372 20	
Office.....	499 55	
Medical, surgical, laboratory.....	23,082 82	
Tools and instruments.....	6,538 27	
Wearing apparel.....	12,663 39	
Carried forward.....		\$793,498 32

EXPENDITURES CLASSIFIED IN ACCORDANCE WITH SEGREGATED
BUDGET FOR THE YEAR ENDING JANUARY 31, 1923.— *Concl.*

GROUP AND ITEM.	ALL DEPARTMENTS.	
	1922-1923.	
<i>Brought forward</i>		\$793,498 32
D. SUPPLIES.....		451,461 64
Office.....	\$15,348 09	
Food and ice.....	233,129 30	
Fuel.....	106,155 34	
Forage and animal.....	353 10	
Medical, surgical, laboratory.....	77,116 42	
Laundry, cleaning and toilet.....	13,397 22	
Educational and recreational.....	513 38	
Agricultural.....	286 22	
Motor vehicle.....	2,870 83	
Chemicals and disinfectants.....	447 85	
General plant.....	1,843 89	
E. MATERIALS.....		31,380 97
Buildings.....	\$18,384 44	
Machinery.....	2,188 65	
Electrical.....	3,917 78	
General plant.....	6,890 10	
F. SPECIAL ITEMS.....		3,555 43
Pensions and annuities.....	\$1,452 07	
Workingmen's compensation.....	2,103 36	
G. INCIDENTAL EXPENDITURES TO COVER CONTINGEN- CIES OTHER THAN PERSONAL.....		171 21
Special investigations.....	\$171 21	
Total expenditures.....		\$1,280,067 57

Table No. 4.

DISBURSEMENTS FROM FEBRUARY 1, 1922, TO JANUARY
31, 1923, INCLUSIVE.

ARTICLES.	Quantity.	Average Price.	Cost.
THE MAIN HOSPITAL, SOUTH DEPARTMENT, HAYMARKET SQUARE RELIEF STATION, EAST BOSTON RELIEF STATION AND CONVALESCENT HOME.			
<i>Subsistence Supplies.</i>			
Beef and veal.....	149,204 lbs.	\$0.168 per lb.	\$25,016 02
Mutton and lamb.....	65,078 "	.23 "	14,979 36
Poultry.....	39,062 "	.335 "	13,085 09
Pork and hams.....	80,524 "	.195 "	15,736 28
Fish.....			7,337 69
Lard.....	4,655 "	.127 "	590 98
Milk.....	488,813 qts.	.098 per qt.	47,672 45
Milk (powdered).....	6,381 lbs.	.116 per lb.	737 72
Butter.....	48,367 "	.392 "	18,962 36
Cheese.....	1,635 "	.24 "	391 71
Eggs.....	50,658 doz.	.403 per doz.	20,395 32
Vegetables, fresh.....			13,711 42
Vegetables, canned.....			5,179 48
Fruit, fresh.....			6,951 81
Fruit, canned.....			8,417 06
Flour.....	989 bbls.	7.175 per bbl.	7,096 19
Graham flour.....	3½ "	5.443 "	19 05
Oatmeal.....	66½ "	5.337 "	354 90
Cornstarch and farina.....	1,085 lbs.	.061 per lb.	66 71
Rice.....	11,000 "	.057 "	622 91
Other cereals.....			2,075 73
Groceries.....			4,657 45
Coffee.....	16,340 lbs.	.231 per lb.	3,776 04
Tea.....	5,146 "	.271 "	1,396 54
Chocolate and cocoa.....	1,888 "	.053 "	99.74
Sugar.....	107,481 "	.061 "	6,514 00
Molasses and syrup.....	197 gal.	.623 per gal.	122 76
<i>Carried forward.....</i>			\$225,966 77

DISBURSEMENTS FROM FEBRUARY 1, 1922 TO JANUARY 31, 1923,
INCLUSIVE.— *Cont.*

ARTICLES.	Cost.	Totals.
<i>Brought forward</i>		\$225,966 77
<i>General Supplies.</i>		
Printing.....	\$5,403 48	
Stationery.....	3,642 71	
Postage.....	775 97	
Advertising proposals, etc.....	22 95	
Telephone rentals.....	4,870 47	
Telephone, telegraph and messenger service.....	549 17	
Nurses' home.....	663 95	
Vose House.....	909 67	
Lucy L. Drown House.....	25 79	
Training school for nurses.....	260 08	
Garage and ambulance: Expenses..... \$8,805 10		
Coal, 100 tons..... 880 00		
Oil, 3,000 gallons..... 129 00		
	9,814 10	
Garage supplies.....	64 96	
Gasolene.....	2,809 75	
Soap and cleansing stuffs.....	6,536 37	
Dry goods.....	6,343 31	
Furniture.....	4,130 36	
Furnishings.....	17,544 82	
Fixtures.....	2,759 54	
Bedsteads.....	328 90	
Mattresses.....	874 75	
Bedding.....	13,672 17	
Laundry supplies:		
Expenses..... \$12,175 50		
Coal, 400 tons..... 3,520 00		
Oil, 12,000 gallons..... 516 00		
	16,211 50	
Gas, 3,439,900 cubic feet at \$1.247 per 1,000 cubic feet...	4,287 73	
Electric light purchased.....	1,482 24	
Electric light system.....	3,812 08	
Electrical appliances.....	742 08	
Kerosene, matches, candles, etc.....	66 03	
<i>Carried forward</i>	\$108,604 93	\$225,966 77

DISBURSEMENTS FROM FEBRUARY 1, 1922, TO JANUARY 31, 1923,
INCLUSIVE.— *Cont.*

ARTICLES.	Cost.	Totals.
<i>Brought forward.</i>	\$108,604 93	\$225,966 77
<i>General Supplies.— Concluded.</i>		
Ice, 988 $\frac{1}{2}$ tons, at \$7.31 per ton,	7,624 86	
Transportation and express	850 10	
Cartage and freight	659 99	
Insurance	187 50	
Clothing for patients	10,550 34	
Uniforms, caps, etc.	2,180 34	
Annual reports	372 80	
Clinical records:		
Expenses	\$2,239 37	
Salaries	4,800 68	
	7,040 05	
Housecleaning:		
Soap	\$121 07	
Brushes, etc.	160 55	
	281 62	
Incidentals not otherwise classified	303 15	
		138,655 68
<i>Medical Supplies.</i>		
Surgical appliances	\$9,179 56	
Apparatus	12 00	
Splints and crutches	1,828 72	
Surgical instruments	8,719 65	
X-ray apparatus	27 00	
Surgical dressings	4,267 37	
Bandage and compress materials	3,186 49	
Gauze	21,241 74	
Absorbent cotton	1,926 27	
Oxygen gas	1,456 81	
Sulphuric ether	1,839 48	
Medicine and drugs	16,637 42	
Druggists' sundries	3,477 07	
Laboratory ware	3 00	
Flaxseed meal	831 80	
Alcohol	1,179 89	
Liquors	902 73	
Malt liquors and mineral waters	1,541 64	
		78,258 64
<i>Carried forward.</i>		\$442,881 09

DISBURSEMENTS FROM FEBRUARY 1, 1922, TO JANUARY 31, 1923,
INCLUSIVE.— *Cont.*

ARTICLES.	Cost.	Totals.
<i>Brought forward</i>		\$442,881 09
<i>Fuel.</i>		
Coal, 7,715 $\frac{4}{10}$ tons at \$9.086 per ton.....	\$70,100 27	
Oil, 393,864 $\frac{6}{10}$ gallons at \$0.044 per gallon.....	17,236 95	
Charcoal.....	329 37	
Coke.....	513 03	88,179 62
<i>Salaries and Labor.</i>		
Salaries and wages.....	\$6,240 00	
Pay rolls.....	520,414 01	
Wages, housecleaners.....	14,270 31	
Pensions.....	1,452 07	
Injured employees.....	2,103 36	544,479 75
<i>Buildings.</i>		
General repairs.....	\$8,923 99	
Boilers and heating apparatus.....	28,897 32	
Painting.....	2,908 18	
Plumbing.....	2,185 60	
Refrigerating plant.....	139 92	
Walls and fences.....	60 29	43,115 30
<i>Grounds.</i>		
Care of grounds.....		2,717 62
Deduct for board of employees:		\$1,121,373 38
Out-Patient Department.....		16,640 00
Total expenditures for maintaining all main departments for year ending January 31, 1923.....		\$1,104,733 38
<i>OUT-PATIENT DEPARTMENT.</i>		
<i>General Supplies.</i>		
Printing, stationery and postage.....	\$1,578 91	
Telephone rentals.....	315 31	
Soap and cleansing stuffs.....	62 47	
Dry goods, uniforms, caps and clothing.....	67 98	
Bedding.....	106 35	
Furniture, furnishings and fixtures.....	289 26	
Laundry supplies.....	430 01	
<i>Carried forward</i>	\$2,850 29	\$1,104,733 38

DISBURSEMENTS FROM FEBRUARY 1, 1922, TO JANUARY 31, 1923,
INCLUSIVE.— *Cont.*

ARTICLES.	Cost.	Cost.	Totals.
<i>Brought forward</i>	\$2,850 29	.....	\$1,104,733 38
OUT-PATIENT DEPARTMENT.— <i>Concluded.</i>			
<i>General Supplies.</i> — <i>Concluded.</i>			
Gas, 40,800 cubic feet at \$1.299 per 1,000 cubic feet.....	53 00		
Electric light system.....	22 47		
Electrical appliances.....	7 67		
Kerosene, matches, candles, etc.....	5 75		
Housecleaning:			
Soap..... \$1 87			
Brushes, etc..... 12 88			
	14 75	\$2,953 93	
<i>Medical Supplies.</i>			
Surgical instruments, appliances and laboratory ware.....	\$334 26		
Dressings, gauze, bandage, absorbent cotton,	1,321 75		
Chemicals.....	772 32	2,428 33	
<i>Fuel.</i>			
Coal, 710,221 ¹ / ₁₀ tons at \$8.89 per ton.....	\$6,313 08		
Oil, 37,599 ⁷ / ₁₀ gallons at \$.044 per gallon.....	1,644 28	7,957 36	
<i>Salaries and Labor.</i>			
Salaries and wages.....	\$130 00		
Pay rolls.....	32,584 70		
Wages, housecleaning.....	28 08	32,742 78	
<i>Buildings.</i>			
Building repairs, heating apparatus and plumbing.....		2,070 56	
		\$48,152 96	
Add for board of Out-Patient Department employees.....		16,640 00	64,792 96
LABORATORIES.			
(Including Pathological, Clinical, Thorndike, and Pediatric Laboratories; also Department of Immunology.)			
<i>General Supplies.</i>			
Printing, stationery and postage.....	\$314 81		
Telephone rentals.....	31 53		
<i>Carried forward</i>	\$346 34	.....	\$1,169,526 34

DISBURSEMENTS FROM FEBRUARY 1, 1922, TO JANUARY 31, 1923,
INCLUSIVE.— *Cont.*

ARTICLES.	Cost.	Cost.	Totals.
<i>Brought forward</i>	\$346 34	.....	\$1,169,526 34
LABORATORIES.— <i>Concluded.</i>			
General Supplies.— <i>Concluded.</i>			
Soap and cleansing stuffs.....	31 54		
Dry goods, uniforms, caps, clothing.....	273 09		
Bedding.....	124 21		
Furniture, furnishings and fixtures.....	596 86		
Gas, 190,300 cubic feet at \$1.299 per 1,000 cubic feet.....	247 22		
Electric light system.....	45 24		
Electrical appliances.....	26 30		
Kerosene, matches, candles, etc.....	9 57		
Transportation, cartage and freight.....	23 13		
Animals and their maintenance.....	350 10		
Housecleaning:			
Soap.....	\$4 69		
Brushes, etc.....	32 19		
Incidentals not otherwise classified.....	36 88 155 16		
		\$2,265 64	
Medical Supplies.			
Surgical instruments and appliances.....	\$912 99		
Micro-photographic supplies.....	62 14		
Laboratory ware.....	1,780 52		
Gauze and absorbent cotton.....	144 69		
Chemicals.....	1,349 24		
Blood serum.....	94 26		
		4,343 84	
Fuel.			
Coal, 355 $\frac{3}{4}$ tons at \$8.89 per ton.....	\$3,156 57		
Oil, 18,799 $\frac{7}{8}$ gallons at \$.044 per gallon.....	822 13		
		3,978 70	
Salaries and Labor.			
Salaries and wages.....	\$65 00		
Pay rolls.....	41,396 81		
Wages, housecleaning.....	75 60		
		41,537 41	
Buildings.			
Building repairs, heating apparatus and plumbing.....	\$1,917 16		
		1,917 16	
			54,042 75
<i>Carried forward</i>			\$1,223,569 09

DISBURSEMENTS FROM FEBRUARY 1, 1922, TO JANUARY 31, 1923,
INCLUSIVE.— *Cont.*

ARTICLES.	Cost.	Cost.	Totals.
<i>Brought forward</i>			\$1,223,569 09
X-RAY AND PHOTOGRAPHIC DEPARTMENT.			
<i>General Supplies.</i>			
Printing, stationery and postage.....	\$733 32		
Soap and cleansing stuffs.....	4 91		
Dry goods, uniforms, caps, etc.....	66 36		
Bedding.....	22 20		
Furniture, furnishings and fixtures.....	184 42		
Electric power purchased.....	300 00		
Electric light system.....	3 19		
Electrical appliances.....	62 61		
Cartage and freight.....	10 44		
Housecleaning:			
Soap..... \$1 87			
Brushes..... 12 88			
	14 75		
		\$1,402 20	
<i>Medical Supplies.</i>			
X-Ray and photographic apparatus.....	\$2,195 75		
X-Ray and photographic supplies.....	16,331 13		
Dressings, gauze and absorbent cotton.....	9 37		
Chemicals.....	771 15		
		19,307 40	
<i>Fuel.</i>			
Coal, 88 $\frac{1}{2}$ tons at \$8.89 per ton.....	\$789 13		
Oil, 4,700 $\frac{1}{2}$ gallons at \$0.044 per gallon....	205 53		
		994 66	
<i>Salaries and Labor.</i>			
Salaries and wages.....	\$65 00		
Pay rolls.....	12,022 44		
Wages, housecleaning.....	31 05		
		12,118 49	
<i>Buildings.</i>			
Building repairs, heating apparatus and plumbing.....		296 78	
			34,119 53
DEPARTMENT OF PHYSICAL THERAPEUTICS.			
<i>General Supplies.</i>			
Printing and stationery.....	\$116 56		
Dry goods, uniforms, caps, etc.....	15 35		
Bedding.....	10 84		
<i>Carried forward</i>	\$142 75		\$1,257,688 62

DISBURSEMENTS FROM FEBRUARY 1, 1922, TO JANUARY 31, 1923,
INCLUSIVE.— *Cont.*

ARTICLES.	Cost.	Cost.	Totals.
<i>Brought forward</i>	\$142 75	.....	\$1,257,688 62
DEPARTMENT OF PHYSICAL THERAPEUTICS. — <i>Concluded.</i>			
<i>General Supplies.</i> — <i>Concluded.</i>			
Furnishings and fixtures.....	26 94		
Electrical appliances.....	111 39		
Cartage and freight.....	23 60		
		\$304 68	
<i>Medical Supplies.</i>			
Surgical instruments, appliances and labora- tory ware.....	\$1,197 69		
Bandage, gauze, dressings and absorbent cot- ton.....	467 33		
		1,665 02	
<i>Salaries and Labor.</i>			
Pay rolls.....		7,796 36	
<i>Buildings.</i>			
Building repairs.....		32 05	
			9,793 11
DEPARTMENT OF SOCIAL WORK.			
<i>General Supplies.</i>			
Printing, stationery and postage.....	\$434 49		
Furniture and furnishings.....	41 77		
Telephone rentals.....	227 02		
Telephone, telegraph and messenger service.	60 21		
Transportation.....	521 50		
		\$1,284 99	
<i>Salaries and Labor.</i>			
Pay rolls.....		9,977 88	
			11,262 87
SETTLEMENT ACCOUNT.			
Printing, stationery and postage.....	\$636 97		
Furnishings and fixtures.....	11 00		
		\$647 97	
<i>Salaries and Labor.</i>			
Pay rolls.....		670 00	
			1,317 97
Total disbursements.....			\$1,280,067 57
STOCK ON HAND FEBRUARY 1, 1922.			
<i>All Departments.</i>			
General supplies.....		\$35,664 90	
Coal.....		990 91	
<i>Carried forward</i>		\$36,655 81	\$1,280,067 57

DISBURSEMENTS FROM FEBRUARY 1, 1922, TO JANUARY 31, 1923,
INCLUSIVE.— *Concl.*

ARTICLES.	Cost.	Cost.	Totals.
<i>Brought forward</i>		\$36,655 81	\$1,280,067 57
STOCK ON HAND FEBRUARY 1, 1922.— <i>Concluded.</i>			
<i>All Departments.— Concluded.</i>			
Medical supplies.....		9,982 19	
Liquors.....		243 00	46,881 00
Total expenditures for all purposes.....			\$1,326,948 57
DEDUCT.			
STOCK ON HAND FEBRUARY 1, 1923.			
General supplies.....		\$35,852 26	
Coal.....		8,329 52	
Medical supplies.....		11,147 97	
Liquors.....		324 25	55,654 00
Total maintenance expenses.....			\$1,271,294 57
DEDUCT REVENUE.			
Income from paying patients:			
Collected by hospital.....	\$162,214 12		
Collected by City Collector for contagious cases.....	17,148 53	\$179,362 65	
Revenue on account of maintenance:			
Interest on trust funds.....	\$2,424 00		
Refund, Murphy Iron Works.....	1,315 93	3,739 93	
Sundry revenue:			
Sale of bones, trimmings and old ma- terial.....		1,302 58	
Commission on automatic telephones.....		262 02	
Birth fees.....		165 75	
Interest on bank deposit.....		144 67	
Rent for West Department.....		32,243 75	
Damage to ambulances.....		781 04	
Restitution money.....		8 00	
Penalty on coal.....		7 32	
Refund on flour.....		2 50	
Refund on freight.....		56	218,020 77
Net cost to the city for maintaining all departments from February 1, 1922, to January 31, 1923, inclusive.....			\$1,053,273 80

Table No. 5.

COMPARISON OF THE CENSUS AND EXPENDITURES AT THE BOSTON CITY HOSPITAL FOR THE FISCAL YEARS ENDING JANUARY 31, 1919, 1920, 1921, 1922, 1923.

POPULATION.	1918-19.	1919-20.	1920-21.	1921-22.	1922-23.
Number patients at beginning of year,	971	893	945	995	1,026
Number admitted during year.....	21,890	19,475	19,383	21,569	25,985
Number discharged during year, including deaths.....	21,968	19,423	19,333	21,538	25,871
Number remaining at end of year...	893	945	995	1,026	1,140
DAYS' BOARD GIVEN.					
Daily average of patients.....	815.8	763.3	780.6	898.6	962.3
Daily average, officers and employees,	671.8	690.1	681.9	712.9	714.0
Total average days' board given,	1,487.6	1,453.4	1,462.5	1,611.5	1,676.3
EXPENDITURES.					
Ordinary expenditures:					
Personal service.....	\$381,412 00	\$446,346 63	\$525,841 24	\$592,195 59	\$650,567 92
Service other than personal.....	37,798 29	32,190 19	36,158 17	38,424 42	43,386 09
Equipment.....	71,770 00	51,078 39	60,420 88	66,213 31	79,840 64
Supplies.....	459,014 07	431,824 67	532,616 72	431,178 22	451,461 64
Materials.....	22,660 07	24,703 84	33,865 34	25,802 14	31,380 97
Special items.....	357 26	2,478 73	1,340 86	2,497 05	3,555 43
Incidental expenditures.....		3,095 34	523 33	1,316 00	171.21
Extraordinary expenditures (permanent improvements):					
Service other than personal.....	413 00	8,976 05	29,705 97	74,544 88	18,328 67
Equipment.....	950 00	2,851 50	17,886 47		1,375 00
Materials.....			332 31		
Incidental expenditures.....		674 50	600 00		
Totals.....	\$974,374 69	\$1,004,219 84	\$1,239,291 29	\$1,232,171 61	\$1,280,067 57

PER CAPITA COSTS.

February 1, 1922, to January 31, 1923, Inclusive.

	Per Visit.	Per Day.	Per Week.
Hospital proper:			
Per ward patient (after deducting cost of new construction).....		\$3 03	\$21 20
Per person for uncooked food supplies.....		37	2 60
Per out-patient, per visit.....	\$0 59		
South Department:			
Per patient (after deducting cost of new construction).....		3 22	22 57
Per person for uncooked food supplies.....		34	2 35
Hospital proper and South Department together:			
Per ward patient (after deducting cost of new construction).....		3 07	21 47
Haymarket Square Relief Station:			
Per ward patient.....		3 07	21 47
Per out-patient, per visit.....	2 22		
East Boston Relief Station:			
Per ward patient.....		3 07	21 47
Per out-patient, per visit.....	74		
Convalescent Home:			
Per patient.....		2 38	16 68
All Departments:			
Per person for uncooked food supplies.....		37	2 59

REVENUE FROM ALL SOURCES FOR THE YEAR FEBRUARY 1, 1922, TO JANUARY 31, 1923, INCLUSIVE.

Table No. 6.

	Hospital Proper.	South Depart- ment.	Haymarket Square Relief Station.	East Boston Relief Station.	West Depart- ment.	All Depart- ments.	Totals.	Grand Totals.
Revenue, Account of Maintenance:								
Interest on Trust Funds.....	\$2,424 00	.....	.....	.....	.....	.....	\$2,424 00	
Refund Murphy Iron Works*.....	1,315 93	.....	.....	.....	.....	.....	1,315 93	\$3,739 93
Sundry Revenue:								
Income from paying patients collected by hospital:								
For ward patients.....	142,158 60	\$6,755 31	\$1,773 02	\$142 19	.....	\$4,585 00	\$155,414 12	
For out-patients.....	3,412 00	.....	2,085 00	1,303 00	.....	.....	6,800 00	
Received by City Collector for contagious cases*.....	.....	17,148 53	.....	.....	.....	.....	17,148 53	179,362 65
Sale of old material:								
Bags and barrels.....	69 00	.....	.....	.....	.....	.....	\$69 00	
X-ray plates*.....	265 00	.....	.....	.....	.....	.....	265 00	
Waste paper*.....	93 00	.....	.....	.....	.....	.....	93 00	427 00
Sale of bones and trimmings.....	664 38	187 85	23 35	.....	.....	.....	.....	\$75 58
Commission on automatic telephones.....	177 04	52 69	32 29	.....	.....	.....	.....	292 02
Birth fees.....	159 25	.....	.....	6 50	.....	.....	.....	165 75
Interest on bank deposit.....	144 67	.....	.....	.....	.....	.....	.....	144 67
Rent for West Department*.....	.....	.....	.....	.....	\$32,243 75	.....	.....	32,243 75
Damage to ambulances*.....	781 04	.....	.....	.....	.....	.....	.....	781 04
Restitution money.....	8 00	.....	.....	.....	.....	.....	.....	8 00
Penalty on coal*.....	7 32	.....	.....	.....	.....	.....	.....	7 32
Refund on flour.....	2 50	.....	.....	.....	.....	.....	.....	2 50
Refund on freight.....	56	.....	.....	.....	.....	.....	.....	56
Totals.....	\$151,682 29	\$24,144 38	\$3,913 66	\$1,451 69	\$32,243 75	\$4,585 00	.....	\$218,020 77

* Received direct by City Collector on account of the Hospital Department.

Table No. 7.

EXPENDITURES, CLASSIFIED, IN ACCORDANCE WITH SEG-
REGATED BUDGET, SPECIAL ACCOUNT 1921-22.*Unpaid Liabilities Incurred to January 31, 1922,
Inclusive.*

GROUP AND ITEM.	ALL DEPARTMENTS.	
	1921-1922.	
A. PERSONAL SERVICE.....		\$12,223 04
Permanent employees.....	\$12,159 86	
Temporary employees.....	49 02	
Unassigned.....	14 16	
B. SERVICE OTHER THAN PERSONAL.....		13,691 04
Postage.....	\$206 00	
Cartage and freight.....	16 11	
Light and power.....	1,586 01	
Rent, taxes and water.....	126 78	
Communication.....	953 84	
Motor vehicle repairs.....	350 38	
Motorless vehicle repairs.....	41 80	
Cleaning.....	2 66	
Removal of snow.....	19 86	
Expert and architect.....	260 38	
Photographic and blueprinting.....	10 00	
General plant.....	10,117 22	
C. EQUIPMENT.....		11,964 54
Motor vehicle.....	\$327 28	
Furniture and fittings.....	3,584 34	
Office.....	340 00	
Medical and surgical laboratory.....	4,753 45	
Tools and instruments.....	802 26	
Wearing apparel.....	2,157 21	
D. SUPPLIES.....		69,862 29
Office.....	\$3,812 48	
Food and ice.....	37,229 26	
Fuel.....	9,581 39	
Carried forward.....	\$50,623 13	\$107,740 91

EXPENDITURES, CLASSIFIED, IN ACCORDANCE WITH SEGREGATED BUDGET, SPECIAL ACCOUNT 1921-1922, UNPAID LIABILITIES INCURRED TO JANUARY 31, 1923, INCLUSIVE.— *Concl.*

GROUP AND ITEM.	ALL DEPARTMENTS.	
	1921-1922.	
<i>Brought forward</i>	\$50,623 13	\$107,740 91
D. SUPPLIES.— <i>Concluded.</i>		
Forage and animal.....	64 23	
Medical and surgical laboratory.....	15,194 59	
Laundry, cleaning and toilet.....	2,414 30	
Educational and recreational.....	510 44	
Motor vehicles.....	679 43	
Chemicals and disinfectants.....	97 25	
General plant.....	278 92	
E. MATERIALS.....		5,422 90
Buildings.....	\$2,158 13	
Machinery.....	86 96	
Electrical.....	1,024 96	
General plant.....	2,152 85	
F. SPECIAL ITEMS.....		58 37
Pensions and annuities.....	\$33 92	
Workingmen's compensation.....	24 45	
Total expenditures.....		\$113,222 18

Table No. 8.

DISBURSEMENTS.

SPECIAL ACCOUNT 1921-22.

*Unpaid Liabilities Incurred to January 31, 1922,
Inclusive.*

ARTICLES.	Quantity.	Cost.
THE MAIN HOSPITAL, SOUTH DEPARTMENT, HAYMARKET SQUARE RELIEF STATION, EAST BOSTON RELIEF STATION AND CONVALESCENT HOME.		
<i>Subsistence Supplies.</i>		
Beef and veal.....	26,404 lbs.	\$3,821 29
Mutton and lamb.....	12,446 "	2,115 12
Poultry.....	5,915 "	2,215 38
Pork and hams.....	12,338 "	2,189 74
Fish.....		1,523 12
Lard.....	330 lbs.	37 95
Milk.....	74,961 qts.	8,203 57
Milk (powdered).....	710 lbs.	66 15
Butter.....	9,143 "	3,386 50
Cheese.....	281 "	62 95
Eggs.....	7,410 doz.	3,783 44
Vegetables, fresh.....		2,634 02
Vegetables, canned.....		681 91
Fruit, fresh.....		1,072 79
Fruit, canned.....		892 12
Flour.....	201½ bbls.	1,356 00
Graham flour.....	1 bbl.	5 90
Oatmeal.....	12 bbls.	69 00
Cornstarch and farina.....	576 lbs.	33 12
Rice.....	1,200 "	72 60
Other cereals.....		467 72
Groceries.....		838 52
Coffee.....	3,620 lbs.	695 90
Tea.....	506 "	114 56
Chocolate and cocoa.....	363 "	16 50
Molasses and syrup.....	64½ gals.	33 60
<i>Carried forward.....</i>		\$36,389 47

DISBURSEMENTS—SPECIAL ACCOUNT 1921-22. UNPAID LIABILITIES
INCURRED TO JANUARY 31, 1922, INCLUSIVE.—*Cont.*

ARTICLES.	Cost.	Totals.
<i>Brought forward</i>		\$30,389 47
<i>General Supplies.</i>		
Printing.....	\$1,258 76	
Stationery.....	1,148 84	
Postage.....	213 70	
Telephone rentals.....	884 91	
Telephone, telegraph and messenger service.....	68 93	
Nurses' Home.....	2 40	
Vose House.....	27 50	
Lucy L. Drown House.....	4 10	
Training school for nurses.....	151 30	
Garage and ambulance.....	866 16	
Garage supplies.....	1 46	
Gasolene.....	556 59	
Soap and cleansing stuffs.....	1,692 68	
Dry goods.....	852 70	
Furniture.....	690 42	
Furnishings.....	3,563 18	
Fixtures.....	216 21	
Bedsteads.....	178 50	
Bedding.....	2,106 02	
Laundry supplies.....	840 21	
Gas, 484,200 cubic feet.....	1,119 13	
Electric light purchased.....	319 12	
Electric light system.....	794 79	
Electrical appliances.....	212 03	
Ice, 118 $\frac{113}{100}$ tons.....	924 82	
Cartage and freight.....	14 69	
Clothing for patients.....	1,332 01	
Uniforms, caps, etc.....	156 90	
Clinical records.....	538 36	
Incidentals not otherwise classified.....	136 78	20,873 20
<i>Medical Supplies.</i>		
Surgical appliances.....	\$2,260 09	
Splints and crutches.....	67 82	
Surgical instruments.....	2,163 63	
<i>Carried forward</i>	\$4,491 54	\$57,262 67

Table No. 8.

DISBURSEMENTS.—SPECIAL ACCOUNT, 1921-22, UNPAID LIABILITIES
INCURRED TO JANUARY 31, 1922, INCLUSIVE.—*Cont.*

ARTICLES.	Cost.	Totals.
<i>Brought forward</i>	\$4,491 54	\$57,262 67
<i>Medical Supplies.—Concluded.</i>		
X-ray apparatus.....	13 35	
Surgical dressings.....	717 40	
Bandage and compress materials.....	2,137 31	
Gauze.....	3,330 49	
Absorbent cotton.....	452 58	
Oxygen gas.....	188 56	
Sulphuric ether.....	171 14	
Medicine and drugs.....	2,836 33	
Druggists' sundries.....	578 66	
Flax seed meal.....	99 84	
Alcohol.....	417 74	
Malt liquors and mineral waters.....	77 80	15,512 74
<i>Fuel.</i>		
Coal, 878 ^{6.65} / _{22.10} tons.....	\$8,487 87	
Charcoal.....	62 50	8,550 37
<i>Salaries and Labor.</i>		
Salaries and wages.....	\$541 66	
Pay rolls.....	11,500 91	
Wages, housecleaners.....	180 47	
Pensions.....	33 92	
Injured employees.....	24 45	12,281 41
<i>Buildings.</i>		
General repairs.....	\$8,763 61	
Boilers and heating apparatus.....	1,374 91	
Painting.....	585 01	
Plumbing.....	308 49	
Refrigerating plant.....	14 41	11,046 43
<i>Grounds.</i>		
Care of grounds.....		60 56
<i>Carried forward</i>		\$104,714 18

DISBURSEMENTS.—SPECIAL ACCOUNT, 1921-22, UNPAID LIABILITIES
INCURRED TO JANUARY 31, 1922, INCLUSIVE.—*Cont.*

ARTICLES.	Cost.	Cost.	Totals.
<i>Brought forward.</i>			\$104,714 18
OUT PATIENT DEPARTMENT.			
<i>General Supplies.</i>			
Printing.	\$158 85		
Stationery.	27 26		
Gas, 24,900 cubic feet.	33 91		
Electric light system.	3 40	\$223 42	
<i>Medical Supplies.</i>			
Instruments and appliances.	\$8 00		
Apparatus.	70 50	78 50	
<i>Fuel.</i>			
Coal, 68 $\frac{72}{2240}$ tons.		634 47	
<i>Buildings.</i>			
Building repairs.	\$29 55		
Plumbing.	3 60	33 15	969 54
LABORATORIES.			
<i>General Supplies.</i>			
Printing.	\$21 45		
Stationery.	9 51		
Furnishings.	11 20		
Furniture.	1 90		
Fixtures.	39 17		
Hay, grain, etc.	64 23		
Incidentals.	10		
Gas, 48,000 cubic feet.	63 85		
Electric light system.	10 05	\$221 46	
<i>Medical Supplies.</i>			
Instruments and appliances.	\$63 95		
Laboratory ware.	528 86		
Micro-photographic supplies.	11 22		
Chemicals.	204 04		
Blood serum.	7 85	815 92	
<i>Fuel.</i>			
Coal, 34 $\frac{200}{2240}$ tons.		317 24	
<i>Carried forward.</i>		\$1,354 62	\$105,683 72

DISBURSEMENTS.—SPECIAL ACCOUNT, 1921-22, UNPAID LIABILITIES
INCURRED TO JANUARY 31, 1922, INCLUSIVE.—*Cont.*

ARTICLES.	Cost.	Cost.	Totals.
<i>Brought forward</i>		\$1,354 62	\$105,683 72
LABORATORIES. — <i>Concluded.</i>			
<i>Buildings.</i>			
Building repairs.....	\$68 60		
Plumbing.....	6 90	75 50	1,430 12
X-RAY AND PHOTOGRAPHIC DEPARTMENT.			
<i>General Supplies.</i>			
Printing.....	\$33 95		
Stationery.....	306 59		
Furniture.....	1 45		
Furnishings.....	33 00		
Electric light purchased.....	50 00		
Cartage and freight.....	1 42	\$426 41	
<i>Medical Supplies.</i>			
Chemicals.....	\$275 11		
X-Ray apparatus.....	297 91		
X-Ray supplies.....	4,781 19	5,354 21	
<i>Fuel.</i>			
Coal, 8½ ¹¹ / ₁₆ tons.....		79 31	5,859 93
DEPARTMENT OF PHYSICAL THERAPEUTICS.			
<i>General Supplies.</i>			
Printing.....	\$23 60		
Stationery.....	5 07	\$28 67	
<i>Medical Supplies.</i>			
Instruments and appliances.....		39 07	67 74
DEPARTMENT OF SOCIAL WORK.			
<i>General Supplies.</i>			
Printing.....	\$45 05		
Stationery.....	51 62		
Furnishings.....	60	\$97 27	97 27
SETTLEMENT ACCOUNT.			
<i>General Supplies.</i>			
Printing.....		\$83 40	83 40
Total disbursements.....			\$113,222 18

The tables of disbursements in this report show the expenditures of the Hospital Department during the fiscal year February 1, 1922, to January 31, 1923, inclusive. Tables No. 1 and No. 2 show the disbursements in various subdivisions with per capita costs, Table No. 2 showing the hospital proper combined with South Department to form the main hospital. Table No. 3 shows the expenditures according to the budget classification. Table No. 4 shows the detailed disbursements in various subdivisions. Table No. 5 is a comparison of the census and expenditures for the past five years. Table No. 6 is a statement of the revenue received from all sources during the year.

Tables No. 7 and No. 8 are the liabilities of the year ending January 31, 1923, which were paid on or after February 1, 1923, from an appropriation known as "Special Account 1921-1922:" Table No. 7 being in accordance with the segregated budget: Table No. 8 being disbursements in detail.

The total expenditures for the fiscal year for Hospital Department, in the various branches, have been \$1,280,067.57 and the disbursements have been made as follows:

For personal service	\$650,567 92
Service other than personal	61,714 76
Equipment	81,215 64
Supplies	451,461 64
Materials	31,380 97
Special Items	3,555 43
Incidental expenditures to cover contingencies other than personal service	171 21
Total	<u>\$1,280,067 57</u>

The hospital proper has six subdivisions, the hospital (wards) proper, Out-Patient Department, Laboratories, X-Ray and Photographic Department, Department of Physical Therapeutics, Department of Social Work.

The expenditures for the South Department for

infectious diseases, the Haymarket Square Relief Station, the East Boston Relief Station and the Convalescent Home are kept in separate tables.

The average weekly expenditure per ward patient in the hospital proper was \$21.20; at South Department, \$22.57; at the main hospital (hospital proper and the South Department combined), \$21.47. At the Convalescent Home the average weekly expenditure per patient was \$16.68.

The expenditure per visit per out-patient at the hospital proper was 59 cents; at the Haymarket Square Relief Station, \$2.22; at the East Boston Relief Station, 74 cents.

The expenditure per person for uncooked food supplies in all the hospital departments was \$2.59 per week or 37 cents per day.

The total expenditures of the Hospital Department have been \$1,280,067.57, but the net cost to the city for maintaining it was only \$1,053,273.80.

The maximum number of patients in the hospital proper on any one day was 877, as against 805 in the previous year. The minimum number was 604 in comparison with 571 for the previous year. The daily average during the year was 748.5, and the average length of stay was 13.2 days.

There have been treated in the various out-patient departments at the hospital proper 37,419 patients. Other statistics may be found elsewhere, including the number of out-patients, number of their visits, rate of mortality, work of ambulances, census of days' board for all persons, the nativity of patients admitted and physical condition of patients when discharged.

The total number of deaths from February 1, 1922, to January 31, 1923, was 1,600. This does not include the statistics of the South Department, but only the main hospital.

Of the deaths, there occurred within

48 hours of admission	539 or 2.6 per cent.
Other deaths	1,061 or 5.1 per cent.

Total	1,600 or 7.7 per cent.
-----------------	------------------------

the rate of mortality for the year ending January 31, 1923.

This percentage of deaths is for the total number of patients treated in the hospital. The deaths occurring within forty-eight hours of admission (539) were 34 per cent of the whole number of deaths (1,600).

During the year 20,707 patients were treated in the wards of the main hospital, 37,419 as out-patients, 281 at the Convalescent Home, 2,460 at the South Department; at the Haymarket Square Relief Station 3,215 were treated in the wards and 23,549 as out-patients, and at the East Boston Relief Station 348 were treated in the wards and 11,713 as out-patients, a total of 27,011 ward patients and 72,681 out-patients who have received the benefits of the hospital in all departments.

During the year 20,349 persons applied for admission at the main hospital. Of this number 19,952 were admitted and 397 rejected. This number rejected was 2 per cent of all persons applying, and the causes of rejection appear in the table of applicants not admitted on page 71.

There were 658 self-rejected or deferred. Of these, 315 were admitted within three days and 161 admitted later. There were 198 denied admission because they had a state settlement, but of these 72 were admitted within three days and 38 later. One hundred seventy-five were rejected for lack of accommodation, but of these 85 were admitted within three days and 24 still later. Seventy-nine were refused admission because they did not reside within the city limits, but 26 of these were admitted within three days and 8 later. Fourteen were denied admission on account of lack of information

that they were suitable applicants, but of these 8 were admitted later. Seventeen were referred to other public institutions on account of the nature of their diseases but of these, seven were admitted later.

HAYMARKET SQUARE RELIEF STATION.

The following are the principal statistics of the Haymarket Square Relief Station for the year:

Number of patients remaining in Haymarket Square Relief Station, January 31, 1922.	12
Admitted from February 1, 1922, to January 31, 1923, inclusive	3,203
	<hr/>
Treated during the year	3,215
Discharged during the year	3,119
Died during the year	71
	<hr/>
Total of discharges and deaths	3,190
	<hr/>
Number of patients remaining in Haymarket Square Relief Station, January 31, 1923.	25
Number of out-patients treated during the year	23,549
Largest number of out-patients treated on any one day	103
Number of major surgical operations	52
Number of deaths following surgical operations	8
Number of deaths within twenty-four hours of admission	70
Number of days' treatment given patients in wards	3,639
Largest number of ward patients on any one day	26
Smallest number of ward patients on any one day	2
Average stay of ward patients in days	1.1
Daily average in wards	10
Number of Relief Station ambulance calls	1,242
Number of ambulance trips for transfer of admitted patients to hospital proper	592
	<hr/>
	1,834
Patients carried (miscellaneous trips)	1,242
Out-patients transferred to Main Hospital	262
Ward patients transferred to Main Hospital.	657
	<hr/>
	2,161
Total number of miles run by Relief Station ambulance,	2,491

Number of cases brought in by police ambulances and patrol wagons	2,307
Number of cases brought in by carriages and automobiles	857

EAST BOSTON RELIEF STATION.

The following are the principal statistics for the year:

Number of patients remaining at the East Boston Relief Station, January 31, 1922	4
Admitted from February 1, 1922, to January 31, 1923, inclusive	344
	<hr/>
Treated during the year	348
Discharged during the year	304
Died during the year	40
	<hr/>
	344
	<hr/>
Number of patients remaining in East Boston Relief Station January 31, 1923	4
Number of out-patients treated	11,713
Number of visits of out-patients	36,259
Largest number of out-patients treated on any one day	185
Number of major surgical operations	21
Number of deaths following surgical operations	0
Number of deaths within twenty-four hours of admission	39
Number of days' treatment given patients in wards,	660
Largest number of ward patients on any one day	7
Smallest number of ward patients on any one day	0
Average stay of ward patients in days	1.9
Daily average in wards	1.8
Number of cases accidentally injured admitted to wards	194
Number of X-ray films taken	504
Miscellaneous ambulance trips	252
Trips for transfer of patients to Main Hospital	121
	<hr/>
	373
Patients carried in miscellaneous trips	228
Patients transferred to hospital proper	254
	<hr/>
	482

Miles run by ambulance	1,351
Patients brought in by police ambulances, carriages and automobiles	469

CONVALESCENT HOME.

The statistics of the Convalescent Home, which has just completed its thirty-second year, are as follows:

Number of patients in Home, January 31, 1922 . .	17
Admitted during the year	264
	<hr/>
Total treated during the year	281
Discharged during the year	267
	<hr/>
Number remaining in Home, January 31, 1923 . .	14
Number of days' board given patients	5,170
Largest number of patients on any one day . .	22
Smallest number of patients on any one day . .	6
Daily average number of patients	14.2
Average stay of patients in days	18.4

MEDICAL LIBRARY.

Number of books in library February 1, 1922 . .	3,620
Number of books added to library from February 1, 1922, to January 31, 1923:	
By purchase	72
By donation	27
	<hr/>
	99
	<hr/>
Number of books in library January 31, 1923 . .	<u>3,719</u>

There have been received during the year 164 medical monographs and reprints and 140 hospital and health reports and 599 periodicals.

Nineteen thousand nine hundred fifty-two name catalogue cards and eleven thousand thirty-nine clinical catalogue cards have been written and filed, during the year.

TRAINING SCHOOL FOR NURSES.

The Training School for Nurses has now completed its forty-fifth year. The changes in the nursing staff during the year have been as follows:

SUMMARY FROM FEBRUARY 1, 1922, TO JANUARY 31,
1923, INCLUSIVE.

February 1, 1922, the number of nurses was . . . 253

During the year nurses came as follows:

Graduates employed	11	
Graduates retained	13	
Graduates re-employed	7	
Pupil re-instated	1	
Probationers came	57	
Nurses from affiliated schools:		
Cambridge City Hospital	5	
Chelsea Memorial Hospital	3	
Cambridge Hospital	12	
Waltham Training School	2	
New England Hospital	6	
Worcester State Hospital	10	
Taunton State Hospital	8	
Leonard Morse Hospital	5	
Boston State Hospital	2	
Grafton State Hospital	3	
Long Island Hospital	6	
Medfield State Hospital	3	
Male supervisors	2	
Male graduate	1	
Male pupils	28	
Male Butler Hospital pupils	5	
Special nurses employed	2,270	
	<hr/>	2,460

During the year nurses left as follows:

Supervisors resigned	2	
Graduates resigned	27	
Graduate dropped from the roll	1	
Pupils graduated	30	
Pupils resigned	7	
Pupils dropped	4	
Probationers left	15	
Probationers dropped	3	
	<hr/>	
Carried forward	89	2,713

<i>Brought forward</i>	89	2,713
Pupils from affiliated schools have completed courses as follows:		
Taunton State Hospital	11	
Worcester Memorial Hospital	2	
Chelsea Memorial Hospital	3	
New England Hospital	6	
Worcester State Hospital	10	
Waltham Training School	3	
Cambridge Hospital	7	
Boston State Hospital	17	
Cambridge City Hospital	3	
Cambridge City Hospital pupil died	1	
Grafton State Hospital	7	
Leonard Morse Hospital	5	
Long Island Hospital	3	
Affiliated pupils dropped	3	
Male supervisor resigned	1	
Male graduate resigned	1	
Male pupils left	25	
Male pupils graduated	2	
Butler Hospital male pupils completed course,	4	
Butler Hospital male pupils left	2	
Butler Hospital male pupil died	1	
Special nurses left	2,252	
	<hr/>	2,458
Total number remaining February 1, 1923		<hr/> <u>255</u>

NURSES CONNECTED WITH THE SCHOOL JANUARY
31, 1923, INCLUSIVE.

Main Hospital:

Superintendent of nurses	1
Assistant superintendents of nurses	4
Instructors	3
Graduates	31
Special nurses	58
Boston City Hospital pupil nurses	62
Boston City Hospital male graduate nurses	2
Boston City Hospital male pupil nurses	13
	<hr/>
<i>Carried forward</i>	174

<i>Brought forward</i>	174	
Butler Hospital male nurses	3	
Probationers	11	
Affiliated pupils as follows:		
Medfield State Hospital	1	
Boston State Hospital	1	
Grafton State Hospital	3	
Long Island Hospital	1	
Worcester State Hospital	8	
Cambridge Hospital	5	
Taunton State Hospital	7	
	—	214
<i>South Department:</i>		
Matron and superintendent of nurses	1	
Day supervisor	1	
Night supervisor	1	
Graduates (head nurses)	4	
Graduate, general duty	1	
Special nurse	1	
Boston City Hospital pupil nurses	8	
Affiliated nurses as follows:		
Long Island Hospital	3	
Worcester State Hospital	1	
Chelsea Memorial Hospital	1	
Boston State Hospital	1	
Medfield State Hospital	1	
Leonard Morse Hospital	2	
Cambridge City Hospital	2	
	—	28
<i>Haymarket Square Relief Station:</i>		
Matron	1	
Head nurse	1	
Boston City Hospital pupils	4	
New England Hospital pupil	1	
	—	7
<i>East Boston Relief Station:</i>		
Head nurse	1	
Boston City Hospital pupils	2	
New England Hospital pupil	1	
	—	4
<i>Carried forward</i>		253

<i>Brought forward</i>	.	.	.	.	.	.	.	253
<i>Convalescent Home:</i>								
Matron	.	.	.	.	.	.	.	1
Head nurse	.	.	.	.	.	.	.	1
								—
								2
Total	.	.	.	.	.	.	.	<u>255</u>

Fifty-seven probationers have been admitted. Of these thirty were allowed to enter the school and later seventeen were dropped or withdrew. Sixty-one pupils from schools affiliated with the Training School have been admitted. Three male nurses have also been admitted.

Two of the affiliations are new this year, the Cambridge Hospital and the Medfield State Hospital affiliating with this school.

The curriculum has been amplified in three directions — first, by the strengthening of the course in pediatric nursing, both in theory and practice; second, by the opportunity afforded — by the establishment of a milk laboratory — to more closely correlate the theory and practice of infant feeding; third, by the addition of bedside clinics to the course in the nursing of contagious diseases.

The Alumnae have made provision to annually award four medals in honor of the four members who died in war service: presentation to take place, together with the Anna L. Gibson Prize, on Graduation Day. During the winter, the Alumnae further showed its generosity by inviting the senior pupils to be present at the course in Parliamentary Law.

On the whole, the year 1922 has brought no great changes to the school, although we have made some progress.

CHANGES IN THE EXECUTIVE STAFF.

In May, William J. McDonald, M. D., Third Executive Assistant, resigned to take the position of Surgical House Officer. During the spring and summer, Gerald

L. Doherty, M. D., Chester R. Mills, M. D., and David D. Greene, M. D., successively filled the vacancy until September, when John D. Sheehan, M. D., was appointed Third Executive Assistant. Dr. Sheehan left in January 1923. Samuel Nadel, M. D., was then appointed temporary Third Executive Assistant. Eugene E. O'Neil, M. D., Resident Anæsthetist, resigned in early May and Benedict F. Boland, M. D., was appointed to succeed him.

John A. Seth, M. D., First Assistant in Pathology, resigned in July, Joseph T. Eagan, M. D., being appointed to the vacancy. In November, Frederic Parker, M. D., was appointed Assistant Pathologist, to begin duty in the summer of 1923.

In September, Henry Jackson, Jr., M. D., began service as Assistant in the Thorndike Memorial Laboratory. During the same month, Goronwy O. Broun, M. D., and Percy B. Davidson, M. D., began service as Resident Physicians and Assistants in the Thorndike Laboratory. In January, 1923, Frank E. Berry, M. D., was appointed Assistant in the Thorndike Laboratory, serving without recompense.

Samuel W. Ellsworth, M. D., Physician for X-Ray Service, resigned in April, and Paul F. Butler, M. D., Assistant Physician for X-Ray Service, was appointed Physician for X-Ray Service. Alexander S. MacMillan, M. D., was then appointed Assistant Physician for X-Ray Service. Dr. MacMillan resigned the first of August, and Herman A. Osgood, M. D., Assistant to the Physician for X-Ray Service, was made Assistant Physician for X-Ray Service. Dr. Osgood left early in January, 1923, and Forrest B. Ames, M. D., was appointed Assistant Physician for X-Ray Service.

Lee E. Sutton, M. D., was appointed Resident Physician for Pediatric Service in June. In October, he resigned, and Herbert C. Soule, M. D., was appointed his successor.

As the number of pneumonia cases diminished, the Special Service went out of existence, Benjamin J.

Berger, M. D., Assistant Resident Physician for this service, being transferred to the position of Assistant Physician at the South Department in May, and F. Dennette Adams, M. D., Resident Physician for Special Service, resigning in June.

At the South Department, Stuart W. Adler, M. D., Assistant Physician, left in July, to serve as exchange man between New York Contagious Hospitals and the South Department. Hiram H. Amiral, M. D., Assistant Physician, left in March, and George L. Fuller, M. D., was appointed to succeed him. Dr. Fuller left in June and Benjamin J. Berger, M. D., was transferred from the Special Service to the position of Assistant Physician at the South Department. In October, Lee E. Sutton, M. D., was transferred from the Pediatric Service to the position of Assistant Physician at the South Department.

At the East Boston Relief Station, Charles L. Lynch, M. D., Assistant Resident Surgeon, resigned in October, and Carl A. Peterson, M. D., was appointed to the position.

The new out-patient building, the appropriation for which was mentioned in the last annual report, is rapidly nearing completion, and we anticipate being able to have it ready for occupancy the latter part of this year.

The Thorndike Memorial Building is also rapidly nearing completion, the apparatus and other equipment have been ordered, and we anticipate occupancy during the summer months.

The hospital continues to be greatly overcrowded, averaging about one hundred and twenty-five patients a day, greater than we can adequately care for. The South Department, while not so overcrowded as the main Hospital, has been filled all winter to its capacity. At times it has been necessary to delay the admission of some cases. It is anticipated that in the near future accommodations for more nurses and accommodations for better housing of the present staff of resident physicians and surgeons will be provided.

The problem of caring for alcoholics still remains a serious one for the Hospital but it is realized that these unfortunates must be cared for, and during the last year the Hospital has cared for an increasing number of such cases over the previous year.

I desire to show my appreciation of the Trustees and the executive officers of the Hospital for their continued support during the past year.

JOHN J. DOWLING, M. D.
Superintendent and Medical Director.

BEQUESTS.

FUNDS WITH INTEREST ONLY AVAILABLE.

<i>Goodnow Fund.</i> — For the support of free beds	\$26,000 00
<i>Nichols Fund.</i> — For the establishment and endowment of a City Hospital	2,000 00
<i>Norcross Fund.</i> — For the benefit of patients leaving the hospital poor and destitute of proper clothing	2,000 00
<i>Ball Fund.</i> — For the same purpose and under the same restrictions as the Norcross Fund	1,000 00
<i>Goodnow Library Fund.</i> — For replenishing the library of the hospital with books and pamphlets suitable for the reading of the patients during convalescence	1,000 00
<i>Shaw Fund.</i> — For the purchase of flowers and fruit for the use and comfort of the patients in the hospital	2,000 00
<i>Perkins Fund.</i> — For books for the Medical Library, and for the purchase of artificial limbs and surgical appliances for the use and relief of patients leaving the hospital	7,500 00
<i>Cheever Fund.</i> — To purchase and present to each house surgeon when his service expires a pocket case of surgical instruments, as a gift from Dr. David W. Cheever	3,500 00
<i>Charles P. Hemenway Fund.</i> — For a free bed, to be known as the Charles P. Hemenway Memorial Bed	5,000 00
<i>Herbert L. Burrell Ether Prize Fund.</i> — For a money prize to be given to the house officer who administers ether or other anæsthetic in the most skillful and humane manner	1,000 00
<i>Silas Durkee Fund.</i> — “For the benefit of the Boston City Hospital”	15,050 00
<i>Daniel S. Ford Fund.</i> — “For the benefit of the Boston City Hospital”	6,000 00
<i>Carried forward</i>	\$72,050 00

<i>Brought forward</i>	\$72,050 00
<i>Carter Fund.</i> —For books for the benefit of the Training School for Nurses	2,000 00
<i>Hettie Lang Shuman Memorial Library Fund.</i> — To be expended in perpetuity by the trustees for new books for the use of hospital patients and for the replacing of volumes that have become damaged, lost or destroyed	2,000 00
<i>William T. Bolton Fund.</i> —For the benefit of the Boston City Hospital	500 00
<i>Patrick A. Collins Memorial Library Fund.</i> — For the purchase of new books for the use of hospital patients and for the replacing of those that have become damaged, lost or destroyed,	500 00
<i>Mehitable C. C. Wilson Fund.</i> —For the benefit of the Medical Library	500 00
<i>Nurses' Fund.</i> —To be used under direction of superintendent and staff for employment of special nurses	10,233 00
<i>Dr. George S. Hyde Fund.</i> —For the support of a free bed	5,000 00
<i>Timothy Smith Fund.</i> —"For the purpose of maintaining and conducting The Boston City Hospital"	5,000 00
Total	<u>\$97,783 00</u>

HOUSE RULES.

The House Rules are at the present time being revised, and inasmuch as many changes will take place, it is deemed inadvisable to incorporate the rules in this report.

SPECIAL RULES FOR THE GOVERNMENT OF THE SOUTH DEPARTMENT.

The department of the Boston City Hospital located on the westerly side of Massachusetts avenue shall be designated as the South Department of the Boston City Hospital. It shall receive patients who require treatment for diphtheria, scarlet fever, measles, whooping cough, and for other infectious diseases as may be determined from time to time by the trustees.

The Superintendent and Medical Director of the hospital shall, under the direction of the trustees, have the general control and management of this department in the same manner as of other departments of the hospital.

The rules of the hospital shall, so far as applicable, and except as hereinafter provided, apply to the various officers and employees and to the conduct and management of this department.

SPECIAL RULES FOR THE GOVERNMENT OF THE HAYMARKET SQUARE AND THE EAST BOSTON RELIEF STATIONS.

The Boston City Hospital Relief Stations are established not as hospitals, but as departments of the Boston City Hospital for temporary relief, and the rules and methods prevailing now in the hospital shall, so far as applicable, and not inconsistent with special rules, apply to the Relief Stations.

The stations shall afford temporary relief in all classes of accident and disease. They shall be open at all hours for patients requiring treatment or attention. Patients requiring ward treatment, whether received at the stations or taken up in ambulances, shall, so far as is consistent with their welfare, be forthwith transferred or carried to the hospital for extended treatment, but ward accommodations shall be afforded patients whose condition is such that they cannot properly be transferred. Patients may, however, if it is deemed desirable, be transferred by the ambulances to other hospitals or to their homes. First treatment may be afforded at the stations, although the applicants are not such as require ward treatment.

The Superintendent of the Hospital shall have the general administration, management and control of the stations, the same as of other departments of the hospital.

The Superintendent shall, once a year, nominate for confirmation by the trustees a Resident Surgeon and one or more Assistant Resident Surgeons for each station; and shall appoint and employ or detail for service in each department, from time to time, as may be necessary, subject to the approval of the trustees or of the proper committees, a Matron, a Supervisor, nurses, male nurses

and such other minor employees as may be required for the proper conduct of the station, who shall be subject to his supervision.

The various officers and employees of the stations shall perform such duties other than those specified as may be required by the trustees or the Superintendent, according to the nature of their respective duties. The Resident Surgeons, the Matron, Supervisors and such other officers as may be so required shall reside at the stations.

PATIENTS.

Alcoholic and insane patients shall not be received unless there is surgical or medical complication making hospital treatment absolutely necessary.

No patient, after being admitted to the wards, shall leave the station until his discharge without a pass from the proper officer, nor shall he visit other parts of the station without permission.

Ward patients shall be discharged by the Superintendent or Resident Surgeon.

AMBULANCE SERVICE AT THE HAYMARKET SQUARE RELIEF STATION.

The ambulance service of the station shall be under the direct control of the Resident Surgeon, and shall co-operate with that of the hospital with which it shall form one general system. Ambulances shall, in response to calls, be dispatched from the station or the hospital as the exigency may require. The utmost dispatch shall be exercised in the ambulance service, so far as is consistent with a regard for the welfare of the patient and the interest of the public.

Ambulances shall in general be sent from the station or the hospital at least upon a general alarm to all fires occurring in the city proper and in such further districts as may be determined upon.

An ambulance shall be held during the hours of the day in complete readiness to make immediate response

to calls, and shall be kept in condition to make prompt response to calls at any time of the night.

A house officer shall accompany the ambulance, shall direct its course and shall have direction of the care and treatment of the patient until received at his destination.

The foreman of the ambulance service at the hospital station shall visit and inspect the Ambulance Department of the station from time to time, but the immediate carrying out of directions shall be under the assistant foreman at the station.

AMBULANCE SERVICE AT THE EAST BOSTON RELIEF STATION.

The rules and methods prevailing in the Haymarket Square Relief Station ambulance service shall, so far as applicable, be effective in the East Boston Relief Station ambulance service.

SPECIAL RULES FOR THE GOVERNMENT OF THE CONVALESCENT HOME.

The department of the Boston City Hospital located on Dorchester avenue, in Dorchester, shall be known as the Convalescent Home, and shall receive such patients recovering from acute diseases as shall be transferred to it from the main hospital for treatment during convalescence.

The Superintendent of the Hospital shall, under the direction of the trustees, have the control and management of the Convalescent Home in the same manner as of other departments of the hospital.

The Superintendent shall appoint, subject to the approval of the trustees, a Matron, and shall employ, under their direction, such further assistants as may be necessary for the proper conduct and service of the home.

The Matron, under the direction of the Superintendent, shall have the immediate charge of the home and the control of all nurses and other employees and patients. She shall reside at the home.

VISITORS.

Friends may be permitted to visit patients daily between three and four o'clock in the afternoon. In all cases the trustees, Superintendent and Matron may exercise discretionary powers as to excluding or admitting visitors.

Visitors shall leave the home and grounds at the expiration of the visiting hour, and shall visit no part of the home or grounds other than the reception room, except by permission from the proper authority.

No person shall give any article of food or drink to a patient unless by permission of the Matron.

